

1502 223-3477  
1502 223-4124 Fax  
www.stites.com

421 West Main Street  
Post Office Box 634  
Frankfort, KY 40602-0634  
15021 223-3477  
15021 223-4124 Fax  
www.stites.com

March 31, 2005

Mark R. Overstreet  
(502) 209-1219  
(502) 223-4387 FAX  
movers tree@stites.com

**HAND DELIVERED**

Ms. Beth O'Donnell  
Executive Director  
Public Service Commission of Kentucky  
211 Sower Boulevard  
P.O. Box 615  
Frankfort, Kentucky 40602-0615

Re: *Administrative Case No. 2005-00090*

Dear Ms. O'Donnell:

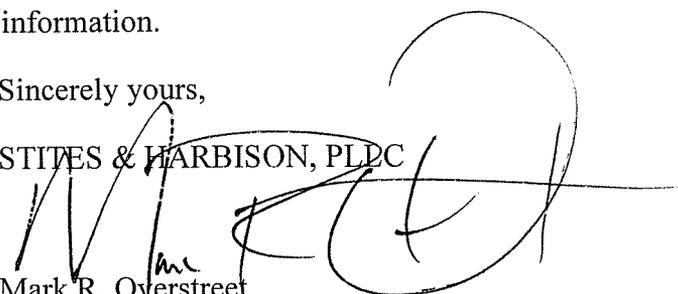
Enclosed please find and accept for filing the Responses of Kentucky Power Company to the Data Requests contained in the Commission's March 10, 2005 Order.

The studies furnished in connection to the Response to Data Request No. 24 contain Critical Energy Infrastructure Information and are not being served on the parties. Instead they are filed with the Commission only and are accompanied by the Company's Petition for Confidential Information.

Please contact me if you need further information.

Sincerely yours,

STITES & HARBISON, PLLC

  
Mark R. Overstreet

cc: All Parties of Record

KE057:00KE4.12295:1:FRANKFORT

FILED

MAR 31 2005

PUBLIC SERVICE  
COMMISSION

**COMMONWEALTH OF KENTUCKY**  
**BEFORE THE**  
**PUBLIC SERVICE COMMISSION OF KENTUCKY**

**In The Matter Of:**

**AN ASSESSMENT OF KENTUCKY'S                    )**  
**ELECTRIC GENERATION, TRANSMISSION ) ADMINISTRATIVE**  
**AND DISTRIBUTION NEEDS                    ) CASE NO. 2005-00090**

**RESPONSE OF KENTUCKY POWER COMPANY**  
**D/B/A**  
**AMERICAN ELECTRIC POWER**

**TO**

**COMMISSION ORDER DATED MARCH 10, 2005**

**FILED: March 31, 2005**



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide a summary description of your utility's resource planning process. This should include a discussion of generation, transmission, demand-side, and distribution resource planning.

**RESPONSE**

**Summary of Resource Planning Process**

AEP/KPCo's generating capacity resource planning process includes the following steps:

- (1) Forecast future customer demands and energy requirements. The determination of the system's "requirements" customers' (i.e., those for whom it is obligated to provide service) load requirements, their seasonal and hourly characteristics, variability, etc., establishes the "target" which the system's resources must be able to serve with adequate reliability. Committed sales to unaffiliated systems are also included.
- (2) Apply appropriate reliability or reserve criteria. The reliability characteristics (scheduled and forced outage rates, deratings, etc.) of the system's individual resources (generating units or purchases), together with the characteristics of its load requirements, determine how much reserve capacity is required to meet those requirements with a specified level of reliability. This is frequently reduced to an equivalent reserve percentage, based on more detailed analyses. A minimum reserve percentage requirement may be specified by a reliability organization in which the system participates.
- (3) Review the adequacy of current and planned resources to meet those criteria. A projection of the system's current and committed resources, taking into account anticipated capacity additions and retirements and currently scheduled purchases, is compared with its projected load requirements, taking into account reserve requirements.
- (4) Determine the need for additional resources. Any projected capacity "deficiencies" identified in (3) indicate a need for additional resources. The pattern of such needs over time establishes the outline of the required resource additions.

(5) Review available future resource options. Identify the available resource options, which may include various types of supply-side resources, such as generating units, various generating unit ownership arrangements, power purchases, special opportunities, etc., as well as demand-side resources. Catalog the various engineering, operational, and cost characteristics of each.

(6) Determine the mix of resources that provides customers with a low cost, reliable plan. Compare the total costs of owning and operating the system assuming different mixes of resource options. The approach followed may involve simple screening curves, sophisticated computer simulation models, or other approaches as appropriate. The final selection should be able to satisfy the planning objectives and be adaptable to reasonably foreseeable changes in underlying factors (i.e., "sensitivity cases"). Flexibility in a capacity resource plan is a major advantage.

(7) Monitor and revise all steps of the planning process on an ongoing basis, as appropriate. Many of the factors that underlie the resource plan are subject to variability and change. Updated estimates become available from time to time, and should be taken into account as practicable.

(8) Implement the plan. This begins with an implementation feasibility analysis; this feasibility analysis may include additional analyses regarding the financing requirements of the plan, specific ownership arrangements, etc. The results of the feasibility analysis may cause the plan to be modified. Next, senior company management will review the plan; that review may also cause the final plan to be modified.

Arrange for the acquisition of the selected resources. This step may not be considered to be part of the planning process per se, but it represents the ultimate culmination of the process. The implementation / acquisition itself may be a complex process. Implementation timing will depend on the timetable for acquiring the specific resources and their individual lead times and associated processes.

### **Demand-Side Management Planning**

DSM planning parallels the capacity resource planning process. The following process is being evaluated by AEP/KPCo:

(1) Establish a DSM measure database. Research and keep abreast of a wide range of industry literature, attend conferences and workshops, etc. Design, implement, and analyze customer appliance and usage surveys.

(2) Carry out Preliminary judgmental screening and packaging. Analyze the load impact of each measure. Carry out load research and analysis to support and define the likely company-specific impacts of DSM measures. Develop company-specific assumptions for measures or packages of measures for evaluation.

- (3) Analyze system cost-benefit. Consider measures in stand-alone evaluations, considering avoided capacity costs, avoided energy costs, costs of measures or packages of measures, etc.
- (4) Combine with Supply-side analysis. Review and repackage measures that pass the above cost-benefit analysis. Combine with supply side optimization using system models.
- (5) Analyze participant cost-benefit. Analyze winning measures from the participant, jurisdictional, and customer class perspectives to assist in rate design. Design rates.
- (6) Implement. DSM implementation generally involves the use of outside contractors. Frequently an RFP process is used. Develop appropriate specifications and terms, solicit and review bids, conduct negotiations, develop and implement contracts, etc. There are also activities and costs related to rates and tariffs and accounting and customer billing to allocate cost and benefit elements appropriately, and to implement and track such allocations.
- (7) Follow-up and verify. If contractors are used, monitor and verify their performance. Monitor and verify overall DSM measure effects over an extended period, possibly using special metering or other special measures. Monitor and verify customer behavior and satisfaction. Conduct regulatory activities related to program verification and cost recovery, as appropriate.

**Transmission:**

As part of the transmission planning process, AEP develops expansion plans for the local systems to ensure reliability. AEP's entry into PJM on October 1, 2004 did not fundamentally change the planning process for the local areas of the AEP East transmission system. However, FERC Order 2000 requires RTOs to implement a stakeholder-driven open regional planning process to develop an expansion plan for the bulk transmission system within its footprint. PJM, in cooperation with the stakeholders, undertakes this task and develops the PJM Regional Transmission Expansion Plan (RTEP) on an annual basis. AEP participates fully in that process as a stakeholder.

AEP and PJM coordinate the planning activities on a "bottoms up/top down" approach. AEP plans and develops expansion plans for the load areas of the AEP transmission system to meet the applicable reliability criteria. PJM consolidates AEP's expansion plans with those of other PJM member utilities and then collectively evaluates the expansion plans as part of the RTEP process. The PJM assessment is to ensure consistent and coordinated expansion of the overall bulk transmission system within its footprint. In accordance with this process, AEP continues to be responsible for the planning of its local system and will coordinate the expansion of the AEP EHV System with the PJM Stakeholders through the PJM RTEP process.

By way of the PJM RTEP process, the transmission expansion plans for the bulk transmission system are developed for the entire RTO footprint via a single regional planning process, assuring a consistent view of needs and expansion timing while minimizing expenditures.

The RTEP process is designed to identify bulk transmission system requirements for the PJM footprint. PJM then determines the individual member's responsibility as related to construction and costs to implement this stakeholder transmission expansion plan. This process identifies the most appropriate, reliable and economical integrated transmission reinforcement plan for the entire region while blending the local expertise with a regional view and formalized open stakeholder input.

AEP's planning criteria is consistent with the NERC Planning Standards and ECAR Document 1. Consequently, expansion of the AEP transmission system resulting from the PJM RTEP process will also be consistent with the NERC Planning Standards, ECAR Documents, as well as the specific AEP criteria. The AEP planning criteria are filed with FERC annually as part of AEP's FERC Form 715 filing. Using these criteria, limitations, constraints and future potential deficiencies on the AEP transmission system are identified. Remedies are identified and budgeted as appropriate to ensure that system enhancements will be timed to address the anticipated deficiency.

In addition to the long-term planning process described above, short-term operating procedures will be studied and identified on the larger footprint, thereby enabling the development of wider reaching effective operating procedures. Within PJM, the scheduling of generation and transmission facilities are closely coordinated to ensure that adequate reliability levels are maintained throughout the PJM footprint.

During real-time operations, transmission constraints are mitigated using the congestion management systems and processes. These processes include generation redispatch (on the entire PJM footprint if necessary), implementation of the NERC Transmission Loading Relief Procedure, and/or local operating procedures.

In summary, transmission reliability is maintained through a continuum of long-term planning, short-term operational planning, and real-time operations. As a member of PJM, each of these functions currently performed by AEP, will be augmented by coordination with the RTO.

### **Distribution**

The actual loading and projected loading based on load growth and anticipated new loads are evaluated for substation equipment and circuit main feeders each year following the summer peak-loading season. This is the "Load Forecast Process". Overload and reliability issues identified are further analyzed during the "Capacity Review Process" to see if simple remedies such as load balancing, power factor correction, load transfers, etc. can be done or if more involved improvement plans need to be developed. If severe overloads are anticipated to occur in the next peak load cycle, short-term remedies are implemented. In addition, needed long-term improvement plans are developed for consideration in the next budgeting cycle.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Are new technologies for improving reliability, efficiency and safety investigated and considered for implementation in your power generation, transmission and distribution system?

- a. If yes, discuss the new technologies that were considered in the last 5 years and indicate which, if any, were implemented.
- b. If no, explain in detail why new technologies are not considered.

**RESPONSE**

Yes, AEP has and continues to investigate new technologies to improve reliability, efficiency and/or safety. Examples of these investigations are summarized below:

**Generation:**

***Advanced Generation:***

AEP has been working with Battelle and the US Department of Energy to assess the geologic formations at the Mountaineer Plant on the Ohio River. While this technology is not currently being implemented, it is providing important information for the future sequestration of carbon dioxide. AEP is also working with Battelle in the support of DOE's regional carbon sequestration center that will provide important data about carbon sequestration opportunities in the Midwest.

Collaborative Memberships in Electric Power Research Institute (EPRI) and Gas Technology Institute: Our membership in those collaborative research organizations have provided numerous assistance in improving the efficiency and reliability of our plants. Specific examples in the Advanced Generation area include the cost data and analyses that were used by AEP to evaluate IGCC technology, as is being considered for use at the Lewis County, KY site.

***Generation Asset Management:***

The majority of AEP's research in the Generation Asset Management area is centered around our membership in EPRI. Specific examples of programs that have benefited the reliability and safety of the coal-fired power plants on the AEP system include a demonstration of Pulverizer Variable Frequency Drives at the Big Sandy Plant, which was implemented there, Boiler Life and Availability Improvement, Fossil Repair and Applications Research, and Cycle Chemistry Research Programs that are supporting AEP's Boiler Reliability and Optimization Program for our coal-fired boilers. In addition, AEP is developing wireless technology that is currently being used to monitor the health of plant Generation Step-up Transformers to predict early failure of that critical equipment. AEP is also working with EPRI to develop models to predict the remaining life of critical boiler components such as super heaters and reheaters.

***Renewable Technologies:***

AEP has conducted research on biomass cofiring at the CSP Picway Plant, and based on that success is conducting feasibility studies for biomass co-firing at the OPCO Muskingum River Plant. AEP has supported distributed wind-turbine research that has allowed a better understanding of the impacts of small wind turbines on AEP's distribution system.

**Transmission:**

In the transmission arena, for example, AEP is investigating lighter weight non-metallic core conductors allowing higher capacity - but lighter weight - to be installed on existing circuit structures thereby avoiding the rebuilding or reinforcing these structures but increasing the circuit's electrical capacity.

AEP is also evaluating a fault current limiter, using cryogenic technology to limit fault current nearly instantaneously (measured in fractions of a cycle). If successful, this technology may provide the means to forestall the replacement of several 138 kV circuit breakers currently of marginal interrupting capability, positively impacting the safety and efficiency of the transmission system.

AEP continues to explore other specific applications of new technologies to improve reliability, efficiency and safety. Several examples of new technologies that have been evaluated and implemented on the AEP system are highlighted below.

**PTLOAD** - An EPRI developed state of the art software that is used to accurately determine thermal loading capability and predicted loss of life of power transformers. This tool is used by both AEP Transmission and Distribution as a planning and operations tool. Transformer thermal model elements from the latest IEEE C 57 Standard are incorporated in PTLOAD. Benefits include improved asset utilization and reduced risk of failure.

**DayCor Camera** - An EPRI developed and commercialized optical inspection tool that enables remote visual inspection of energized transmission line and station equipment for electrical corona discharge during daylight hours. Corona is an undesired localized electrical discharge, which often is indicative of hardware problems. Before the DayCor camera was available, detailed visual equipment inspections were conducted at night during low ambient light conditions, when the corona discharge was more visible. Benefits include lower maintenance labor costs and improved safety.

**GasVue Camera** - An EPRI developed and commercialized camera for visually identifying and localizing SF6 leaks from gas insulated substation electrical equipment during daylight hours. SF6 is a potent green house gas. As such, SF6 use and inadvertent leaks are monitored closely. Benefits: the GasVue camera has reduced SF6 consumption and reduced maintenance labor costs to locate and mitigate SF6 leaks in AEP gas filled station equipment.

**UCA (Utility Communications Architecture)** – A standard “plug and play” communications protocol designed for substation digital equipment. Jointly developed by EPRI and utilities, UCA was driven by the need for digital intelligent devices in automated stations to share data in a seamless fashion. Similar to the benefits of communications and configuration standards for personal computers and their peripheral equipment, implementing UCA has reduced substation commissioning and maintenance labor costs and improved the accuracy and utility of station digital data. UCA has recently been incorporated into International Standard IEC 61850.

**“Back to Back” Voltage Source Converter (BtB VSC)** – An ABB developed power electronics based power flow controller was installed and commissioned as part of an EPRI project at AEP's Eagle Pass Station in Texas. The system controls both real and reactive power flows between two electrically isolated systems, improves reliability for both the U.S. and Mexican regional 138 kV electrical grids and can be used for black start. Benefits include improved flexibility for Transmission Operations, improved reliability and precise bi-directional power flow control.

**“Back to Back” Variable Frequency Transformer (BtB VFT)** - A GE developed power transmission technology, BtB VFT, will be installed and commissioned at AEP's Laredo Station in Texas in 2007. The Laredo 100 MW VFT controls both real and reactive power flow between two electrically isolated systems, and will improve reliability for both the U.S. and Mexican regional electrical grids. The bi-directional real and reactive power flow control of VFT will result in improved reliability and improved flexibility for Transmission Operation.

**New 765 kV Tower Series** - A new series of 765 kV tower designs was built and tested at the EPRI facility at Haslet Texas, as part of an EPRI project. Five new tower designs were verified by testing them to failure. As a result, the new proven tower designs are implemented in the construction of the new 90-mile Wyoming-Jacksons Ferry 765 kV line scheduled to be completed in 2006. Benefits include reduced risk and improved safety and reliability when implementing new equipment designs after performing controlled verification testing.

**Environmental:**

New technologies that have been investigated for controlling or mitigating environmental effects of our power plants include:

***Ammonia Reduction Efforts:***

A vendor approached us with a new reagent for controlling emissions of sulfur trioxide (SO<sub>3</sub>). This would have eliminated much of the ammonia used to control SO<sub>3</sub> emissions. A small investment in research by an outside consultant indicated that the proposed reagent would be of little value in this application, allowing us to avoid a much larger expenditure for a pilot installation.

Research in collaboration with the Electric Power Research Institute (EPRI) and the Tennessee Valley Authority (TVA) led to innovative ways to control ammonia levels in the runoff from the ash pond at one of our plants. The results of this research can be applied at any plant that has an ash pond and that uses ammonia as a reagent.

***Mercury Science, Monitoring, and Control Technologies:***

Investments in research by EPRI allowed greater input into the mercury rule-making by the Environmental Protection Agency, resulting in a phased approach to mandated mercury controls that will allow a greater overall reduction but provide for a more rational approach to the installation of controls on existing power plants.

A small annual investment in the Mercury Characterization and Control Interest Group (MerCCIG) under the aegis of EPRI has provided a forum for sharing of information about mercury control methods among a large number of utilities, thereby leveraging both funds and knowledge more effectively.

Additional funding for development of the QuickSEM mercury monitoring technology resulted in the inclusion in the proposed federal regulations of a monitoring method based on QuickSEMs that will greatly reduce the cost of compliance monitoring for mercury in those plants where the QuickSEM technology can be employed.

Investments in better understanding of mercury chemistry in flue gas have advanced the knowledge in this area, which is crucial to understanding how to control mercury emissions cost-effectively when the new regulations come into full effect.

***Multi-emission Technologies:***

EPRI has investigated the Powerspan multi-emission technology, which is currently being considered for installation at certain power plants within the AEP system. Information on a number of other multi-emissions technologies has been instrumental in formulating our long-range compliance plans.

***NOx Controls:***

EPRI has built a facility in Michigan for assessing the accuracy of devices designed to measure the actual flow of coal in pipes supplying the burners in a power plant. Knowledge derived from this test facility, and from another research project testing the use of feedback controls using the output from the coal-flow measurement devices, is helping to control NOx emissions from the Sporn power plant, and can be employed at many other plants in the future.

***SO3 Controls:***

An Aerosol Emissions Control Interest Group (AECIG), similar in composition and operation to the MerCCIG group, is being formed to leverage funding and knowledge about the formation and control of aerosol emissions like SO3.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Is your utility researching any renewable fuels for generating electricity?

- a. If so, what fuels are being researched?
- b. What obstacles need to be overcome to implement the new fuels?

**RESPONSE**

Although Kentucky Power Company is not researching renewable fuels for generating electricity itself, the Parent Company and its affiliate companies are researching renewable fuels for generating electricity.

- (a) The following fuels are being researched.

**Wind Power:** AEP has an active wind-power development program, is actively pursuing opportunities for wind-power generation. Affiliate AEP companies own two wind generation facilities totaling 310 megawatts of generating capacity, and is involved with another company in a third project.

AEPs Trent Mesa Wind Farm - located near Sweetwater in Nolan County, Texas - - was completed in 2001 and generates 150 megawatts of electricity. All of the energy produced from this project is sold to TXU Corporation under a wholesale energy supply contract.

The 160-megawatt Desert Sky Wind Farm located near Iraan in Pecos County, Texas - - was also completed in 2001. All of the energy produced from this project is sold to City Public Service of San Antonio under a wholesale energy supply contract.

AEP is also involved in the 75-megawatt Southwest Mesa Wind Project, which is also located in Texas. AEP identified the site and owns the majority of the land where the project is located. FPL Energy owns and operates the turbines, and AEP retail affiliates purchase the output of the project from FPL Energy.

Our company has an active wind development program and has been monitoring wind resources since the mid-1990s. To date, we have studied about 30 sites in Texas and neighboring states to precisely calculate the costs of producing and delivering electricity with the wind resources there.

**Hydroelectric Power:** AEP generates approximately 870 megawatts of electricity from its 17 hydroelectric plants.

**Biomass Energy:** AEP recently completed a test burn of biomass at an affiliate company's Picway Plant near Columbus Ohio, which consisted of cofiring up to 20% wood, chips with the coal. In addition, AEP is currently conducting a feasibility study for cofiring biomass at its Muskingam River Plant near Beverly Ohio with the goal of testing the use of biomass (wood chips) at the cyclone-fired boilers there. AEP is also conducting biomass resource assessment surveys throughout the Eastern States to quantify the quantity and availability of biomass that can be used for cofiring in our boilers.

(b) The obstacles to overcome are as follows:

**Hydroelectric power:** environmental restrictions for new hydroelectric facilities especially associated with impacts on fish, and the challenges of re-licensing existing facilities.

**Wind Power:** Due to the relatively high capital cost and low capacity factor, it is difficult to install and operate an economically viable wind-power facility without incentives such as production tax credits.

**Biomass Energy:** The low energy density of biomass results in cost and logistic challenges in securing a long-term economical supply of biomass. There are limitations on the amount of biomass that can be co-fired in existing boilers, and there are capital cost premiums for designing new boilers to burn biomass.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide actual and weather-normalized annual native load energy sales for calendar years 2000 through 2004. Provide actual annual off-system energy sales for this same period disaggregated into full requirements sales, firm capacity sales and non-firm or economy energy sales. Off-system sales should be further disaggregated to show separately those sales in which your utility acts as a reseller, or transporter, in a power transaction between two or more other parties.

**RESPONSE**

Pages 2 and 3 of this response provide the 2000 through 2004 monthly energy sales for Kentucky Power Company.

Pages 4 and 5 of this response provide the 2000 through 2004 normalized energy sales for Kentucky Power Company.

Energy sales to full requirements sales-for-resale (municipals) customers are provided on pages 2 through 5 of this response. Page 6 of this response provides off-system (non-firm energy and firm capacity) sales for Kentucky Power Company. The off-system sales have not been normalized; therefore, the requested information is not available.

Kentucky Power Company did not act as a reseller on any transactions during 2000 through 2004.

**Kentucky Power Company  
Actual Internal Energy Sales (MWh)  
2000-2004**

<u>Year</u>	<u>Month</u>	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Other Retail</u>	<u>Sales-for- Resale</u>
2000	January	316,938	94,130	274,825	1,113	8,186
2000	February	243,280	99,742	223,820	886	7,547
2000	March	163,407	97,309	276,096	1,033	6,119
2000	April	135,698	87,243	267,575	859	5,414
2000	May	135,916	94,764	262,769	749	5,393
2000	June	159,615	115,796	257,954	786	6,553
2000	July	187,845	109,621	246,969	766	6,740
2000	August	180,343	116,015	263,680	900	6,775
2000	September	133,766	96,510	248,272	837	5,955
2000	October	137,442	95,824	261,768	1,100	5,469
2000	November	195,472	114,481	278,842	1,328	7,042
2000	December	334,286	122,085	296,819	1,078	9,607
2001	January	358,991	126,669	236,121	965	9,198
2001	February	211,650	103,578	248,500	899	7,120
2001	March	218,790	107,127	276,722	1,064	7,494
2001	April	151,023	88,367	256,089	702	5,824
2001	May	118,012	100,274	264,536	792	5,723
2001	June	127,863	94,302	256,650	643	6,242
2001	July	176,824	106,454	245,852	717	7,180
2001	August	212,182	126,459	277,200	941	7,400
2001	September	163,531	112,703	240,576	913	5,633
2001	October	150,188	106,257	287,101	1,262	5,707
2001	November	185,624	92,767	257,987	1,183	6,966
2001	December	237,750	113,819	279,063	1,236	4,772
2002	January	327,046	118,027	258,259	972	11,766
2002	February	237,032	113,840	269,412	1,014	7,496
2002	March	219,159	104,388	271,258	952	6,730
2002	April	151,630	96,237	264,627	801	7,780
2002	May	133,452	114,196	274,837	926	6,061
2002	June	182,384	116,077	251,542	696	7,468
2002	July	216,486	118,761	254,381	756	8,442
2002	August	210,017	119,418	267,571	872	8,458
2002	September	155,448	110,327	249,291	900	6,822
2002	October	127,111	104,951	277,993	1,218	6,430
2002	November	193,311	94,952	268,120	1,240	7,389
2002	December	315,549	115,887	246,736	1,004	9,040
2003	January	352,133	131,070	270,068	1,836	10,310
2003	February	286,404	115,622	230,845	699	7,294

**Kentucky Power Company  
 Actual Internal Energy Sales (MWh)  
 2000-2004**

<u>Year</u>	<u>Month</u>	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Other Retail</u>	<u>Sales-for- Resale</u>
2003	March	199,684	98,434	258,452	-98	7,424
2003	April	125,078	100,401	246,757	899	6,073
2003	May	125,951	109,682	238,713	825	5,974
2003	June	137,963	110,040	240,595	758	6,502
2003	July	204,701	117,185	221,737	733	8,043
2003	August	187,228	113,095	246,455	819	8,163
2003	September	148,684	104,155	220,259	868	6,512
2003	October	106,387	88,151	259,177	1,009	6,515
2003	November	172,523	98,632	256,877	1,066	7,085
2003	December	309,779	125,474	240,274	1,145	9,247
2004	January	351,657	129,577	241,592	1,160	10,306
2004	February	295,240	120,241	251,186	944	9,095
2004	March	204,818	108,751	280,197	990	7,839
2004	April	143,691	96,774	239,324	848	6,639
2004	May	135,548	113,867	290,239	779	7,322
2004	June	166,382	119,061	255,681	715	7,296
2004	July	198,751	119,844	265,408	725	8,516
2004	August	181,184	118,967	272,682	821	7,469
2004	September	149,816	112,996	236,365	878	6,914
2004	October	126,758	102,079	277,153	1,010	6,432
2004	November	162,871	105,737	288,789	1,094	7,166
2004	December	294,644	125,199	282,382	1,181	9,942

**Kentucky Power Company**  
**Normalized Internal Energy Sales (MWh)**  
**2000-2004**

<u>Year</u>	<u>Month</u>	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Other Retail</u>	<u>Sales-for-Resale</u>
2000	January	313,956	93,369	274,825	1,113	8,126
2000	February	262,460	105,152	223,820	886	7,828
2000	March	177,828	101,137	276,096	1,033	6,320
2000	April	136,796	88,632	267,575	859	5,497
2000	May	134,735	92,259	262,769	749	5,322
2000	June	155,405	114,376	257,954	786	6,421
2000	July	205,238	114,823	246,969	766	7,266
2000	August	191,385	119,469	263,680	900	7,114
2000	September	135,280	98,583	248,272	837	6,026
2000	October	140,487	95,808	261,768	1,100	5,494
2000	November	183,822	111,411	278,842	1,328	6,889
2000	December	302,627	114,093	296,819	1,078	8,977
2001	January	356,228	125,963	236,121	965	9,142
2001	February	223,524	106,845	248,500	899	7,292
2001	March	200,774	102,503	276,722	1,064	7,275
2001	April	147,826	85,524	256,089	702	5,657
2001	May	120,186	100,613	264,536	792	5,783
2001	June	132,238	95,947	256,650	643	6,355
2001	July	184,320	108,723	245,852	717	7,439
2001	August	209,597	125,635	277,200	941	7,303
2001	September	163,967	113,397	240,576	913	5,753
2001	October	149,790	105,934	287,101	1,262	5,656
2001	November	202,886	94,818	257,987	1,183	6,967
2001	December	254,808	115,868	279,063	1,236	4,776
2002	January	347,666	118,274	258,259	972	11,766
2002	February	245,167	113,943	269,412	1,014	7,497
2002	March	219,847	104,596	271,258	952	6,752
2002	April	153,061	95,119	264,627	801	7,648
2002	May	126,932	114,992	274,837	926	6,162
2002	June	179,414	114,773	251,542	696	7,321
2002	July	210,654	116,931	254,381	756	8,239
2002	August	200,186	116,280	267,571	872	8,110
2002	September	149,108	106,937	249,291	900	6,441
2002	October	122,171	103,859	277,993	1,218	6,311
2002	November	183,671	94,797	268,120	1,240	7,385
2002	December	315,812	115,921	246,736	1,004	9,043
2003	January	326,654	126,021	270,068	1,836	9,828
2003	February	267,065	111,796	230,845	699	6,928

**Kentucky Power Company**  
**Normalized Internal Energy Sales (MWh)**  
**2000-2004**

<u>Year</u>	<u>Month</u>	<u>Residential</u>	<u>Commercial</u>	<u>Industrial</u>	<u>Other Retail</u>	<u>Sales-for- Resale</u>
2003	March	217,031	101,956	258,452	-98	7,758
2003	April	137,963	102,966	246,757	899	6,318
2003	May	136,125	112,540	238,713	825	6,219
2003	June	147,439	113,315	240,595	758	6,770
2003	July	212,479	119,882	221,737	733	8,263
2003	August	187,300	113,121	246,455	819	8,165
2003	September	154,848	106,492	220,259	868	6,693
2003	October	107,906	88,631	259,177	1,009	6,554
2003	November	187,223	101,684	256,877	1,066	7,364
2003	December	311,743	125,893	240,274	1,145	9,285
2004	January	342,006	127,799	241,592	1,160	10,120
2004	February	296,171	120,413	251,186	944	9,113
2004	March	211,793	109,958	280,197	990	7,967
2004	April	142,434	96,657	239,324	848	6,624
2004	May	123,767	109,989	290,239	779	6,956
2004	June	169,625	120,134	255,681	715	7,397
2004	July	203,538	121,439	265,408	725	8,666
2004	August	190,713	122,147	272,682	821	7,766
2004	September	151,150	113,341	236,365	878	6,948
2004	October	137,724	104,287	277,153	1,010	6,658
2004	November	180,060	108,890	288,789	1,094	7,494
2004	December	297,829	125,802	282,382	1,181	10,004

Kentucky Power Company  
2000-2004 Off-System Energy Sales and Capacity Sales

<u>Month</u>	2000		2001		2002		2003		2004	
	<u>Energy Sales</u> (MWh)	<u>Capacity Sales</u> (MWh)								
January	142,381	0	216,845	1,568	210,032	5,673	222,970	9,032	291,192	26,697
February	164,834	0	230,376	1,629	124,638	6,148	249,993	8,558	261,350	23,958
March	143,110	0	296,171	2,012	210,961	7,177	313,164	7,789	225,275	25,718
April	152,093	0	273,395	1,839	253,543	5,878	315,987	7,662	243,716	23,819
May	163,050	0	236,349	1,397	225,988	6,023	267,250	9,430	252,705	23,696
June	163,218	0	222,411	1,507	231,715	10,461	287,452	11,326	312,126	20,460
July	168,639	5,290	229,175	1,618	254,271	14,574	299,361	12,137	318,620	21,304
August	197,189	5,984	210,729	1,737	221,808	13,339	271,690	11,622	289,617	21,407
September	204,570	6,055	146,350	1,285	215,014	10,411	303,180	10,781	285,877	22,633
October	243,685	9,418	209,624	1,273	236,075	6,172	267,787	8,995	211,590	23,459
November	218,796	7,980	209,499	1,436	207,165	6,362	232,829	8,654	280,021	22,501
December	196,030	9,645	223,321	1,255	203,260	5,634	255,576	9,044	291,599	24,271
<b>Total</b>	<b>2,157,595</b>	<b>44,372</b>	<b>2,704,245</b>	<b>18,556</b>	<b>2,594,470</b>	<b>97,852</b>	<b>3,287,239</b>	<b>115,030</b>	<b>3,263,688</b>	<b>279,923</b>



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide actual and weather-normalized annual coincident peak demands for calendar years 2000 through 2004 disaggregated into (a) native load demand, firm and non-firm; and (b) off-system demand, firm and non-firm.

**RESPONSE**

Page 2 of this response provides actual and weather normalized 2000 through 2004 monthly peak internal demands for Kentucky Power Company. Currently, the Company has 0 MW of contractual interruptible capacity.

In addition, Page 2 of this response provides actual 2000 through 2004 monthly system demands for Kentucky Power Company. The system demands include internal load and off-system sales. Weather-normalized monthly peak system demands for the Company have not been developed and therefore, are not available.

**Kentucky Power Company**  
**Actual and Weather Normalized Peak Internal Demand (MW)**  
**and Peak System Demand (MW)**  
**2000-2004**

	2000		2001		2002		2003		2004	
	Actual Peak	Normalized Peak								
<u>Internal Demand</u>										
January	1,558	1,473	1,579	1,505	1,551	1,536	1,564	1,542	1,478	1,550
February	1,251	1,327	1,313	1,313	1,412	1,395	1,419	1,379	1,391	1,417
March	1,165	1,247	1,272	1,250	1,419	1,310	1,290	1,291	1,351	1,342
April	1,012	1,048	1,155	1,066	1,105	1,089	986	1,048	1,167	1,096
May	1,046	1,027	1,063	1,020	1,093	1,064	953	1,012	1,132	1,090
June	1,202	1,176	1,105	1,105	1,269	1,224	1,081	1,140	1,174	1,211
July	1,178	1,261	1,242	1,151	1,268	1,284	1,151	1,207	1,209	1,279
August	1,210	1,245	1,302	1,242	1,326	1,252	1,212	1,238	1,228	1,251
September	1,061	1,104	1,164	1,123	1,212	1,117	1,030	1,095	1,060	1,111
October	1,064	1,001	1,129	1,043	1,049	1,105	1,038	1,041	950	1,028
November	1,400	1,184	1,153	1,224	1,189	1,224	1,210	1,241	1,220	1,224
December	1,477	1,297	1,376	1,363	1,393	1,335	1,267	1,389	1,615	1,358
<u>System Demand</u>										
January	1,711	n/a	1,860	n/a	1,942	n/a	1,916	n/a	1,864	n/a
February	1,537	n/a	1,748	n/a	1,659	n/a	1,813	n/a	1,822	n/a
March	1,386	n/a	1,739	n/a	1,781	n/a	1,819	n/a	1,605	n/a
April	1,308	n/a	1,594	n/a	1,585	n/a	1,590	n/a	1,418	n/a
May	1,327	n/a	1,558	n/a	1,553	n/a	1,507	n/a	1,496	n/a
June	1,515	n/a	1,588	n/a	1,672	n/a	1,583	n/a	1,660	n/a
July	1,489	n/a	1,606	n/a	1,739	n/a	1,639	n/a	1,641	n/a
August	1,607	n/a	1,652	n/a	1,650	n/a	1,652	n/a	1,691	n/a
September	1,491	n/a	1,378	n/a	1,542	n/a	1,594	n/a	1,508	n/a
October	1,528	n/a	1,566	n/a	1,421	n/a	1,466	n/a	1,194	n/a
November	1,673	n/a	1,561	n/a	1,546	n/a	1,509	n/a	1,660	n/a
December	1,761	n/a	1,691	n/a	1,797	n/a	1,695	n/a	1,888	n/a



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide a summary of monthly power purchases for calendar years 2000 through 2004 disaggregated into firm capacity purchases required to serve native load, economy energy purchases, and purchases in which your utility acts as a reseller, or transporter, in a power transaction between two or more other parties. Include the average cost per megawatt-hour for each purchase category.

**RESPONSE**

Page 2 of this response provides energy and firm capacity purchases by Kentucky Power Company for 2000 through 2004. In addition, average cost per megawatt-hour for these purchases are included on Page 2.

Kentucky Power Company did not act as a reseller on any transactions during 2000 through 2004.

Kentucky Power Company  
 2000-2004 Off-System Energy Purchases and Firm Capacity Purchases

Month	2000		2001		2002		2003		2004	
	Energy Purchases	Firm Capacity Purchases								
January	49,833	268,264	75,151	253,195	56,029	230,657	92,158	267,011	92,216	246,493
February	46,973	237,828	68,208	211,795	45,648	121,260	71,229	251,876	91,980	156,075
March	63,597	114,346	87,202	276,454	43,126	151,867	112,698	236,969	104,942	130,024
April	63,094	188,619	76,873	129,433	39,978	191,731	71,221	231,577	86,386	209,739
May	86,618	254,590	85,992	190,065	36,493	214,291	53,431	243,337	99,824	142,145
June	65,493	231,847	81,695	216,535	47,579	215,104	61,738	230,464	69,125	243,619
July	54,454	199,813	49,864	239,819	64,158	256,403	56,367	237,692	73,370	254,829
August	30,663	229,705	55,895	243,887	65,531	234,136	85,322	248,875	77,878	229,833
September	42,801	225,241	128,817	209,467	78,979	249,712	55,460	197,440	68,078	233,566
October	83,798	220,520	104,794	212,913	71,593	221,383	48,036	117,671	89,973	222,820
November	83,871	258,721	95,336	220,791	61,378	235,886	51,529	186,609	96,702	251,778
December	104,971	261,973	68,663	231,452	70,740	174,446	66,375	247,312	99,427	234,235
Total	776,166	2,691,467	978,490	2,635,806	681,232	2,496,876	825,564	2,696,833	1,049,901	2,555,156
Average Cost (\$/MWh)										
January	24.47	26.11	31.97	22.44	17.93	23.93	32.57	20.57	33.42	24.12
February	19.37	23.32	27.00	29.23	19.82	37.59	38.55	26.52	33.92	35.23
March	20.87	41.44	32.07	22.67	21.23	32.06	40.07	25.06	30.99	39.34
April	21.87	28.00	32.45	39.21	23.90	26.57	34.86	24.97	30.60	27.66
May	30.86	24.49	27.51	27.38	21.47	24.95	26.61	24.89	33.46	34.69
June	33.86	25.44	22.95	24.80	23.07	25.77	24.67	26.09	30.97	25.27
July	31.89	26.87	30.08	24.37	36.06	21.52	33.39	25.37	32.85	27.21
August	43.22	26.10	33.65	23.85	31.37	23.83	40.36	24.40	29.22	27.74
September	20.44	24.62	20.00	27.04	25.64	22.76	27.60	28.27	28.06	26.84
October	22.12	25.23	20.79	27.20	23.51	25.09	24.91	42.85	36.60	28.04
November	27.64	22.27	19.49	26.71	21.93	22.91	25.91	28.85	43.81	24.97
December	37.48	24.36	18.28	23.84	23.60	32.07	24.94	23.48	41.47	29.48
Average	28.05	25.76	25.57	25.92	24.59	25.74	32.38	25.91	34.12	28.36



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide the most current base case and high case demand and energy forecasts for the period 2005 through 2025, if available. If the current forecast does not extend to 2025, provide forecast data for the longest forecast period available. The information should be disaggregated into (a) native load firm and non-firm demand; and (b) off-system load both firm and non-firm demand.

**RESPONSE**

Page 2 provides Kentucky Power Company's forecast of seasonal peak internal demands and annual internal energy requirements. In addition, the associated high forecast for seasonal peak internal demands and internal energy requirements are provided on this page.

Kentucky Power Company's forecast of off-system energy sales is provided on Page 3 of this response. See response to Item 9 for the Company's peak off-system demand forecast. High forecasts for off-system energy sales and peak demand have not been developed and therefore, such forecasts are not available.

Currently, Kentucky Power Company does not have any interruptible customers.

Kentucky Power Company  
 Base and High Forecast  
 Energy Sales (GWH) and Seasonal Peak Demand (MW)  
 2005 - 2024

Year	Energy Sales		Summer Peak Demand		Preceding Winter Peak Demand	
	Base	High	Base	High	Base	High
2005	8,241	8,329	1,364	1,378	1,687	1,705
2006	8,249	8,395	1,355	1,379	1,695	1,725
2007	8,410	8,613	1,384	1,417	1,722	1,763
2008	8,522	8,777	1,398	1,440	1,741	1,793
2009	8,629	8,949	1,420	1,473	1,769	1,835
2010	8,738	9,091	1,437	1,496	1,791	1,863
2011	8,857	9,238	1,458	1,520	1,816	1,894
2012	8,979	9,386	1,473	1,540	1,834	1,917
2013	9,103	9,538	1,498	1,569	1,866	1,955
2014	9,229	9,690	1,519	1,595	1,892	1,986
2015	9,357	9,843	1,540	1,620	1,918	2,018
2016	9,467	9,979	1,555	1,639	1,935	2,039
2017	9,579	10,117	1,577	1,666	1,964	2,075
2018	9,691	10,260	1,595	1,689	1,986	2,103
2019	9,803	10,408	1,614	1,713	2,010	2,134
2020	9,917	10,567	1,628	1,735	2,026	2,159
2021	10,031	10,733	1,651	1,767	2,056	2,200
2022	10,145	10,901	1,671	1,795	2,080	2,235
2023	10,261	11,073	1,690	1,824	2,104	2,271
2024	10,377	11,246	1,704	1,847	2,120	2,298

Kentucky Power Company and AEP-System-East  
Forecast Off-System Energy Sales (GWh)  
2005 - 2014

<u>Year</u>	KPCo Off-System <u>Sales</u>
2005	2,375
2006	1,377
2007	1,818
2008	2,333
2009	1,781
2010	1,728
2011	1,843
2012	1,599
2013	1,411
2014	1,365



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide the target reserve margin currently used for planning purposes, stated as a percentage of demand, and a summary of your utility's most recent reserve margin study. If this target reserve margin has changed since 2002, provide the prior target reserve margin and explain the reasons for the change. If the target reserve margin is expected to be re-evaluated in the next 3 years, explain the reasons for the re-evaluation.

**RESPONSE**

Due to the October 1, 2004 integration of the AEP System's East Zone into the PJM Interconnection, this Zone now complies with PJM reserve margin requirements.

PJM uses a probabilistic model of load and generation to set reserve requirements. Its target is a one-day-in-ten-years Loss of Load Expectation, taking import capability into account. The installed reserve margin is changed from year to year, depending on PJM five-year average generation reliability, PJM load shape, and estimates of assistance available from neighboring regions. In addition, AEP's responsibility to PJM depends on its twelve-month history of generator reliability and its peak demand diversity in relation to the PJM total load.

PJM has set the Installed Reserve Margin for the June 2005 through May 2006 planning period at 15.0%. Using current AEP reliability and diversity factors, this translates into an installed reserve margin for AEP of 14.07%. These figures are based on data as of October 2004.

This compares with a 12% margin that AEP used, based on our own determinations, from the late 1990s until joining PJM, and 15% prior to that time.

PJM has proposed a new Reliability Pricing Model that is intended to prevent a perceived boom and bust cycle in the construction of generating capacity. It would set the reserve requirement at the intersection point of a supply (generator offer) curve and an administratively determined “demand curve.”

As a member of the AEP Interconnection Agreement, whereby the five member companies share the Zone’s capacity obligations, Kentucky Power has no fixed reserve requirement. However, over the long-term it is expected to provide its share of AEP East Zone capacity on a Member Load Ratio basis, as opportunities arise.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

For the period 2005 through 2025, provide projected reserve margins stated in megawatts ("MW") and as a percentage of demand. Identify projected deficits and current plans for addressing these deficits.

**RESPONSE**

Pages 2 and 3 of this response provide the requested information, under conditions of no capacity additions.

Refer to the response to Item No. 11 for a discussion of possible KPCo short-term purchases as well as capacity additions through 2015.

**KENTUCKY POWER COMPANY**  
**Projected Winter Peak Demands, Generating Capabilities, and Margins**  
**With No Capacity Additions**  
**Based on 2005 Load Forecast**  
**(2004/05-2023/24)**

Winter Season	Internal Demand (a)	DSM (b)	Peak Demand - MW			Inter-ruptible Demand (5)	Total Demand After Interruption (6)=(4)-(5)	Base Changes (d)	Capacity - MW		Margin As a Percent of Demand	
			Committed Sales (c)	Total Demand (4)=(1)-(2)+(3)	Inter-ruptible Demand (5)				Capacity Additions	Installed Capacity (7)	MW (8)=(7)-(4)	(9)=(8)/(4)*100
2004/05	1,687	1	59	1,745	0	1,745	39	0	0	1,489	(256)	(14.7)
2005/06	1,695	1	82	1,776	0	1,776	8	0	0	1,458	(318)	(17.9)
2006/07	1,722	1	115	1,836	0	1,836	8	0	0	1,458	(378)	(20.6)
2007/08	1,741	1	111	1,851	0	1,851	8	0	0	1,458	(393)	(21.2)
2008/09	1,769	1	101	1,869	0	1,869	8	0	0	1,458	(411)	(22.0)
2009/10	1,791	1	112	1,902	0	1,902	8	0	0	1,458	(444)	(23.3)
2010/11	1,816	1	113	1,928	0	1,928	8	0	0	1,458	(470)	(24.4)
2011/12	1,834	1	114	1,947	0	1,947	8	0	0	1,458	(489)	(25.1)
2012/13	1,866	1	115	1,980	0	1,980	8	0	0	1,458	(522)	(26.4)
2013/14	1,892	1	116	2,007	0	2,007	8	0	0	1,458	(549)	(27.4)
2014/15	1,918	1	118	2,035	0	2,035	8	0	0	1,458	(577)	(28.4)
2015/16	1,935	1	119	2,053	0	2,053	8	0	0	1,458	(595)	(29.0)
2016/17	1,964	1	120	2,083	0	2,083	8	0	0	1,458	(625)	(30.0)
2017/18	1,986	1	121	2,106	0	2,106	8	0	0	1,458	(648)	(30.8)
2018/19	2,010	1	122	2,131	0	2,131	8	0	0	1,458	(673)	(31.6)
2019/20	2,026	1	123	2,148	0	2,148	8	0	0	1,458	(690)	(32.1)
2020/21	2,056	1	125	2,180	0	2,180	8	0	0	1,458	(722)	(33.1)
2021/22	2,080	1	126	2,205	0	2,205	8	0	0	1,458	(747)	(33.9)
2022/23	2,104	1	127	2,230	0	2,230	8	0	0	1,458	(772)	(34.6)
2023/24	2,120	1	129	2,248	0	2,248	8	0	0	1,458	(790)	(35.1)

Notes: (a) Based on 2005 Load Forecast.

(b) Includes expanded DSM.

(c) MLR share of sales assumed to be committed by AEP System.

(d) Reflects the following winter capacity assumptions:

MLR share of Mone purchase: 546 MW (Winter) from July 2002 through December 2005 and 109 MW (Winter) thereafter.

**KENTUCKY POWER COMPANY**  
**Projected Summer Peak Demands, Generating Capabilities, and Margins**  
**With No Capacity Additions**  
**Based on 2005 Load Forecast**  
**(2005-2024)**

Summer Season	Peak Demand - MW				Capacity - MW			Margin			
	Internal Demand (1)	DSM (2)	Committed Sales (3)	Total Demand (4)=(1)-(2)+(3)	Inter-ruptible Demand (5)	Total Demand After Interruptible (6)=(4)-(5)	Base Changes (d)	As a Percent of Demand (9)=(8)/(4)*100			
								Additions	Total Installed Capability (7)	MW (8)=(7)-(4)	
2005	1,364	1	96	1,459	0	1,459	34	0	1,484	25	1.7
2006	1,355	1	109	1,463	0	1,463	7	0	1,457	(6)	(0.4)
2007	1,384	1	117	1,500	0	1,500	7	0	1,457	(43)	(2.9)
2008	1,398	1	100	1,497	0	1,497	7	0	1,457	(40)	(2.7)
2009	1,420	1	104	1,523	0	1,523	7	0	1,457	(66)	(4.3)
2010	1,437	1	113	1,549	0	1,549	7	0	1,457	(92)	(5.9)
2011	1,458	1	113	1,570	0	1,570	7	0	1,457	(113)	(7.2)
2012	1,473	1	115	1,587	0	1,587	7	0	1,457	(130)	(8.2)
2013	1,498	1	116	1,613	0	1,613	7	0	1,457	(156)	(9.7)
2014	1,519	1	117	1,635	0	1,635	7	0	1,457	(178)	(10.9)
2015	1,540	1	118	1,657	0	1,657	7	0	1,457	(200)	(12.1)
2016	1,555	1	119	1,673	0	1,673	7	0	1,457	(216)	(12.9)
2017	1,577	1	120	1,696	0	1,696	7	0	1,457	(239)	(14.1)
2018	1,595	1	121	1,715	0	1,715	7	0	1,457	(258)	(15.0)
2019	1,614	1	122	1,735	0	1,735	7	0	1,457	(278)	(16.0)
2020	1,628	1	124	1,751	0	1,751	7	0	1,457	(294)	(16.8)
2021	1,651	1	125	1,775	0	1,775	7	0	1,457	(318)	(17.9)
2022	1,671	1	126	1,796	0	1,796	7	0	1,457	(339)	(18.9)
2023	1,690	1	128	1,817	0	1,817	7	0	1,457	(360)	(19.8)
2024	1,704	1	129	1,832	0	1,832	7	0	1,457	(375)	(20.5)

Notes: (a) Based on 2005 Load Forecast.  
 (b) Includes expanded DSM.  
 (c) MLR share of sales assumed to be committed by AEP System.  
 (d) Reflects the following summer capability assumptions:  
 MLR share of Mone purchase: 447 MW (Summer) from July 2002 through December 2005 and 89 MW (Summer) thereafter.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide the following information for every generation station operated in Kentucky.

- a. Name
- b. Location (including county)
- c. Number of units
- d. Date in service for each unit
- e. Type of fuel for each unit
- f. Net rating (MW) for each unit
- g. Emission control equipment in service (list by type)
- h. Date emission control equipment in service

**RESPONSE**

- a. Name: Big Sandy Plant
- b. Location: Lawrence County Kentucky approximately 6 miles north of Louisa. Mailing address - 23000, HWY 23, Louisa, KY 41230
- c. Number of units: 2
- d. Date in service for each unit: Unit 1 - January 1, 1963; Unit 2 - October 1, 1969
- e. Type of fuel for each unit: Coal
- f. Net rating (MW) for each unit - Unit 1 - 260; Unit 2 - 800
- g. Emission control equipment in service (list by type)
- h. Date emission control equipment in service

<u>UNIT</u>	<u>EQUIPMENT DESCRIPTION</u>	<u>EQUIPMENT IN SERVICE DATE</u>
1	Electrostatic Precipitator	7/1/1970 (upgraded 11/28/1977 and 04/29/2004)
2	Electrostatic Precipitator	10/1/1969 (upgraded 12/24/2002)
0	Station 10 Truck Dump	2/18/1992
2	Low NOx Burners	12/13/1994
1	Low NOx Burners	6/5/1998
2	Ammonia Injection	4/1/1999
1	Overfire Air	5/24/2002
2	Selective Catalytic Reduction	5/9/2003
0	Coal Dust Suppression System	08/1992
0	Telescopic Chute	10/1969 (upgraded 1/15/2001)
1	SO3 Injection System	10/13/1977
2	SO3 Injection System	06/21/1976
2	Ammonia on Demand Injection System	5/9/2003



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide a summary of any planned base load or peaking capacity additions to meet native load requirements in the years 2005 through 2025. Include capacity additions by the utility, and those by affiliates, if constructed in Kentucky or intended to meet load in Kentucky.

**RESPONSE**

At the present time, AEP is evaluating a mix of generation resources to meet the East Zone's projected capacity needs through 2015. Additional capacity resources may be needed by 2006. In the near term, these capacity needs will probably be met through purchases from the market on an as-needed basis. KPCo will share in such purchases on an MLR basis. Prior to 2015, AEP also expects to construct and/or acquire generation facilities in the East Zone, but the precise timing, technology mix, location, and size of such additions remain under review. Based on the Zone's projected needs, KPCo's projected load and capacity, and the projections of load and capacity for the other members of the Interconnection Agreement, KPCo's obligation for additional capacity could be up to 500MW by 2015.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

What is the estimated capital cost per KW and energy cost per kWh for new generation by technology?

**RESPONSE**

Page 2 of this response provides the requested information for each possible new generation option.

**AEP-East**  
**New Generation Technologies**  
**Key Supply-Side Resource Option Assumptions (a)(b)**

Type	Capability (MW)	Capital Cost(\$/kW)	Energy Cost (\$/kWh)
	Nominal	Overnight (c) (\$wo/AFUDC)	(d)
<b>Base Load</b>			
Pulv. Coal (Subcritical) (e)	600	1,270	0.0178
Pulv. Coal (Supercritical) (e)	600	1,312	0.0170
IGCC (e)	600	1,594	0.0163
CFB (e)	400	1,588	0.0195
<b>Intermediate</b>			
Combined Cycle (1X1 GE7FA)	260	584	0.0513
Combined Cycle (2X1 GE7FA)	500	499	0.0519
<b>Peaking</b>			
Combustion Turbine (1X GE7EA)	80	415	0.0880
Combustion Turbine (1X GE7FA)	178	379	0.0827
Combustion Turbine (8X1GE7EA)	640	364	0.0880

Notes: (a) All costs in 2005 dollars, except fuel.  
 (b) \$/kW costs are based on nominal capability.  
 (c) Overnight Cost includes Total Plant & Interconnection Capital, incl. NG pipeline, power grid, water supply, site infrastructure, landfill development, and owner costs.  
 (d) Estimated variable cost of production based on nominal fuel prices of \$7/MBtu for gas and \$1.50/MBtu for coal.  
 (e) Pittsburgh #8 Coal.



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

If current plans for addressing projected capacity deficits include the addition of gas-fired generation, describe the extent to which fluctuations in natural gas prices have been incorporated into these plans. Explain how fluctuations in natural gas prices may have altered the result of previous plans.

**RESPONSE**

Please refer to the response to Item No. 11. Given (1) the large proportion of the AEP East Zone generation that is coal-fired, and (2) the Zone's membership in PJM, which dispatches the entire PJM generation fleet on an economic basis, it is not expected that fluctuations in natural gas prices would have significant impact on the capacity expansion plan.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide a summary of any permanent reductions in utilization of generation capacity due to Clean Air Act compliance from 2000 through 2004. Identify and describe any forecasted reductions during the 2005 through 2025 period.

**RESPONSE**

There have been no reductions in utilization of KPCo's Big Sandy units or its share of the two Rockport units due to Clean Air Act compliance from 2000 through 2004.

Potential reductions during the 2005 to 2025 period are unknown at this time. If Flue Gas Desulfurization systems (scrubbers) or Selective Catalytic Reduction facilities (for NO<sub>x</sub> removal) or Carbon Injection systems (for mercury removal) were to be installed, small reductions in net capacity ratings could be realized.



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide a summary of all forced outages and generating capacity retirements occurring during the years 2000 through 2004.

**RESPONSE**

The attached pages show a summary of all forced outages for both generating units at Big Sandy during the years 2000 through 2004.

There has not been any generating capacity retirements occurring during this period.

PLANT ID	UNIT ID	EVENT START DATE	EVENT START TIME	EVENT END DATE	EVENT END TIME	EVENT DURATION N HOURS	EVENT TYPE	UNIT 1 - FORCED OUTAGE DESCRIPTIONS
BS	1	1/26/2000	0843	1/26/2000	1731	8.8	FO	FROZEN CONTROL AIR LINES
BS	1	1/27/2000	1418	1/27/2000	1459	0.7	FO	CHECKING FOR GROUND
BS	1	5/7/2000	0506	5/8/2000	0345	22.7	FO	CLEAR PRECIPITATOR GROUNDS
BS	1	5/8/2000	0407	5/8/2000	0520	1.2	FO	CLEAR PRECIPITATOR GROUNDS
BS	1	7/2/2000	2141	7/5/2000	1659	67.3	FO	TUBE LEAK
BS	1	9/30/2000	2254	10/1/2000	0050	1.9	FO	TRIPPED DURING ROUTINE TURBINE CHECKS
BS	1	10/15/2000	0507	10/19/2000	1250	103.7	FO	CONTAMINATED RIVER WATER
BS	1	11/4/2000	1422	11/7/2000	0914	66.9	FO	TUBE LEAK
BS	1	12/4/2000	0600	12/5/2000	0745	25.8	FO	REPAIR LEAK IN HEADER DRAIN LINE.
BS	1	3/4/2001	0142	3/4/2001	0324	1.7	FO	TRIPPED ON WEEKLY VALVE CHECKS
BS	1	3/17/2001	1719	3/17/2001	1813	0.9	FO	F.D. FAN TRIP
BS	1	3/23/2001	0456	3/27/2001	1224	103.5	FO	TUBE LEAK
BS	1	8/11/2001	0914	8/13/2001	0323	42.2	FO	TUBE LEAK
BS	1	8/29/2001	0524	9/5/2001	0410	166.8	FO	FURNACE PRESSURE TRIP TUBE LEAK
BS	1	5/20/2002	0600	5/20/2002	1812	12.2	FO	TURBINE BALANCE
BS	1	5/21/2002	0503	5/22/2002	0932	28.5	FO	STEAM LEAK AT TURBINE
BS	1	6/14/2002	2041	6/17/2002	0801	59.3	FO	TUBE LEAK
BS	1	11/11/2002	0600	11/18/2002	2059	183	FO	TURBINE BEARING REPAIRS
BS	1	11/19/2002	0039	11/19/2002	0131	0.9	FO	HIGH VIBRATION
BS	1	12/4/2002	2237	12/6/2002	0906	34.5	FO	TURBINE VIBRATION
BS	1	12/20/2002	0011	12/20/2002	2356	23.8	FO	CLEAR PRECIPITATOR GROUNDS
BS	1	12/26/2002	1023	12/29/2002	1659	78.6	FO	BFPT VIBRATION
BS	1	1/14/2003	1148	1/14/2003	1343	1.9	FO	TRIPPED, LOST LUBE OIL TO BOILER FEED PUMP
BS	1	1/16/2003	1456	1/18/2003	1103	44.1	FO	REMOVE CLINKER
BS	1	4/7/2003	2237	4/8/2003	0229	3.9	FO	TRIPPED, UNABLE TO REFIRE THE BOILER



PLANT ID	UNIT ID	EVENT START DATE	EVENT START TIME	EVENT END DATE	EVENT END TIME	EVENT DURATION HOURS	EVENT TYPE	UNIT 2 - FORCED OUTAGE DESCRIPTIONS
BS	2	5/3/2000	1009	5/8/2000	430	114.4	FO	TUBE LEAK
BS	2	10/5/2000	2007	10/9/2000	1258	88.9	FO	TUBE LEAK
BS	2	10/15/2000	445	10/21/2000	1	139.3	FO	CONTAMINATED RIVER WATER
BS	2	11/3/2000	806	11/6/2000	842	72.6	FO	TUBE LEAK
BS	2	2/3/2001	414	2/5/2001	522	49.1	FO	#2 AIR HEATER LOCKED UP
BS	2	3/24/2001	1306	3/26/2001	624	41.3	FO	TUBE LEAK
BS	2	4/4/2001	745	4/10/2001	1146	148	FO	REPAIR CRACK IN R.H. STEAM LINE
BS	2	2/11/2002	1701	2/12/2002	2240	29.7	FO	LEAK IN DEAREATION STORAGE TANK
BS	2	3/18/2002	410	3/21/2002	156	69.8	FO	TUBE LEAK
BS	2	4/25/2002	2218	4/27/2002	2224	48.1	FO	LOST P.A. FAN
BS	2	12/30/2002	735	12/31/2002	205	18.5	FO	F.D.FAN PHASE DIFFERENTIAL TRIP
BS	2	12/31/2002	1259	1/4/2003	932	92.5	FO	PRECIPITATOR PROBLEMS
BS	2	1/24/2003	642	1/25/2003	840	26	FO	FURNACE PRESSURE TRIP
BS	2	1/25/2003	930	1/25/2003	1030	1	FO	TRIPPED,WHILE SWITCHING POWER FEED TO FD FANS
BS	2	2/15/2003	149	2/19/2003	307	97.3	FO	FEEDER CONTROL CABLES DAMAGED BY FIRE
BS	2	2/19/2003	1456	2/20/2003	201	11.1	FO	CLEAR PRECIPITATOR GROUNDS
BS	2	2/20/2003	224	2/20/2003	331	1.1	FO	LOW FLOW TRIP
BS	2	2/22/2003	1751	3/19/2003	108	583.3	FO	TURBINE VIBRATION
BS	2	3/19/2003	1100	3/19/2003	1253	1.9	FO	LOST SCR BOOSTER FAN
BS	2	5/13/2003	411	5/15/2003	308	46.9	FO	CIRCULATING WATER PUMP MOTORS FLOODED
BS	2	5/15/2003	426	5/15/2003	458	0.5	FO	SCR BOOSTER FAN PRESSURE
BS	2	5/20/2003	154	5/20/2003	1754	16	FO	GENERATOR HYDROGEN LEAK
BS	2	6/6/2003	9	6/9/2003	1745	89.6	FO	TUBE LEAK
BS	2	6/11/2003	1400	6/17/2003	933	139.6	FO	B.F.P. VIBRATION,CHANGE-OUT PUMP
BS	2	6/29/2003	1251	6/30/2003	215	13.4	FO	BFP CONTROL CABLE FIRE

BS	2	9/18/2003	1851	9/21/2003	149	55	FO	TRIPPED, B.F.P.T. CONTROL SYSTEM MALFUNCTION
BS	2	9/21/2003	923	9/21/2003	2233	13.2	FO	TRIPPED, B.F.P.T. CONTROL PROBLEM
BS	2	10/2/2003	1018	10/3/2003	2200	35.7	FO	CRACK IN REHEAT STEAM LINE
BS	2	10/13/2003	600	10/13/2003	1839	12.7	FO	BALANCING B.F.P.T. PROBLEM WITH DEAERATOR LEVEL CONTROL VALVE
BS	2	12/30/2003	15	12/30/2003	1344	13.5	FO	
BS	2	3/3/2004	716	3/4/2004	430	21.2	FO	#1 CONTROL VALVE WENT CLOSED
BS	2	6/19/2004	141	6/19/2004	1558	14.3	FO	TRIPPED, LOST 500 VOLT AUX. BUSS
BS	2	7/11/2004	950	7/11/2004	2121	11.5	FO	TRIPPED, WORKING IN CONTROL CABINET
BS	2	9/4/2004	442	9/5/2004	636	25.9	FO	TRIPPED, HIGH VIBRATION ON #2 TURBINE BEARING
BS	2	9/20/2004	1346	9/21/2004	956	20.2	FO	TRIPPED, TURBINE VIBRATION
BS	2	9/30/2004	1034	10/4/2004	1438	100	FO	TRIPPED - OVERALL DIFFERENTIAL RELAY OPERATION
BS	2	10/21/2004	1643	10/25/2004	548	85.1	FO	TRIPPED, TURBINE VALVE INDICATION PROBLEM
BS	2	12/10/2004	655	12/10/2004	1322	6.4	FO	TRIPPED, GENERATOR CT PROBLEMS
BS	2	12/26/2004	659	12/26/2004	1945	12.8	FO	HIGH GENERATOR CURRENT IMBALANCE



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide a summary of the utility's plans for the retirement of existing generating capacity during the 2005 through 2025 period.

**RESPONSE**

No retirements are planned at this time.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide a summary description of your utility's existing demand-side management ("DSM") programs, which includes:

- a. Annual DSM budget.
- b. Demand and energy impacts
- c. The currently scheduled termination dates for the programs.

**RESPONSE**

Please see attached pages.

Following is a summary description of Kentucky Power Company's (KPCo) existing demand-side management (DSM) programs:

Targeted Energy Efficiency Program

This program will piggyback the resources of not-for-profit agencies that provide weatherization services to low-income households. Energy audits, consultation, and extensive weatherization and energy conservation measures will be provided to eligible low-income customers.

High Efficiency Heat Pump – Mobile Home Program

Kentucky Power Company will provide a \$400 incentive to mobile home customers who replace their resistant heat system with a high-efficiency heat pump. Eligible customers must live in a mobile home, have resistant heat, and have service with KPCo for at least 12 months. Participating HVAC dealers will also receive a \$50 incentive for promoting the program.

Mobile Home New Construction Program

Kentucky Power Company will provide a \$500 incentive to mobile home buyers who purchase a new home with zone 3 insulation levels and a high efficiency heat pump. Participating manufactured housing dealers will also receive a \$50 incentive for promoting the program.

Beginning January 1, 2003, KPCo began providing an additional incentive to mobile home buyers who purchase a new home with zone 3 insulation levels and a 12 SEER air conditioner. Mobile home buyers will receive a \$125 incentive and participating manufactured housing dealerships will receive a \$25 incentive for promoting the program.

Modified Energy Fitness Program

The intent of the Modified Energy Fitness Program is to induce KPCo residential customers to have an energy audit, and, where applicable, have installed a mixture of energy saving measurers. The audit and consultation will pinpoint energy conservation measures that can be implemented by the customer and also educate the customer on the benefits of energy efficiency.

The primary target market will be site built and manufactured homes utilizing electric space heating and electric water heating and use a minimum average of 1,000 kWh of electricity per month. The extent of the services provided will be dependent upon the electrical products in the customer's home. All services will be provided free of charge to eligible customers.

- (a) The 2005 DSM budget is \$678,250.
- (b) Listed below is the 2004 Year-to-Date and Program-to-Date estimated in-place energy (kWh) savings and the anticipated peak demand (kW) reduction:

	<u>Energy Impacts</u> <u>(kWh)</u>	<u>Demand Impacts (kW)</u>	
		<u>Summer</u>	<u>Winter</u>
<b><u>Year-to-Date:</u></b>			
Targeted Energy Efficiency	410,025	20	84
Mobile Home High Eff Heat Pump	271,142	7	149
Mobile Home New Construction	723,117	19	374
Modified Energy Fitness	918,934	97	435
<b><u>Program-to-Date:</u></b>			
Targeted Energy Efficiency	40,160,406	490	2,277
Mobile Home High Eff Heat Pump	25,891,687	198	2,761
Mobile Home New Construction	16,702,006	129	2,679
Modified Energy Fitness	2,561,211	169	761

- (c) All DSM programs are scheduled to expire on December 31, 2005. However, the KPCo DSM Collaborative is planning to request a three-year extension of each program in the August 15, 2005 filing of the DSM status report. Evaluation reports will be provided to justify the continuation of each program.



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide your utility's definition of "transmission" and "distribution".

**RESPONSE**

AEP categorizes facilities operating at 765 kV, 500 kV, 345 kV, and 230 kV as Extra-High Voltage (EHV) transmission. Facilities operating at 161 kV and 138 kV are classified as High Voltage (HV) transmission. Facilities that operate at voltages below 138 kV, constructed to transmission standards and typically operated within a network, are classified as sub-transmission.

Distribution includes those facilities operated at or below 34.5 kV, typically operating in a radial fashion.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Identify all utilities with which your utility is interconnected and the transmission capacity at all points of interconnection..

**RESPONSE**

Kentucky Power's interconnections with non-AEP utilities (including associated Summer Normal/Summer Emergency Ratings in MVA) are identified below:

Interconnections to EKPC:

Argentum 69 kV (39/46)\*  
Cory-Pelfrey 69 kV (5/5)\*  
Falcon 69 kV (22/25)\*  
Grayson 69 kV (20/20)\*  
Lee City 69 kV (143/143)\* - Operated Normally Open  
Leon 69 kV (54/54)\*  
Thelma 69 kV (78/96)\*  
Salt Lick 46 kV (5/5)\*  
Millbrook Park – Argentum 138 kV (205/215)\*

Interconnections with LGEE:

Morehead 69 kV (78/101)\* rating "to" LGEE

Interconnections with TVA:

Leslie- Pineville 161 kV (167/167)\*



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide the peak hourly MW transfers into and out of each interconnection for each month of the last 5 years. Provide the date and time of each peak.

**RESPONSE**

The monthly maximum received and delivered MW by each Kentucky Power interconnection with another utility is provided in the attached pages.

Note that the abbreviations included in the attachment correspond with the previous response (Item No. 19) as follows:

ARGENT: Argentum 69 kV  
ARGN138: Millbrook Park – Argentum 138 kV  
FALCON: Falcon 69 kV  
GRAYSON: Grayson 69 kV  
LEEECTY: Lee City 69 kV  
LEON: Leon 69 kV  
LV-TIE: Sum of Cory-Pelfrey 69 kV and Salt Lick 46 kV  
THELMA: Thelma 69 kV  
MORHEAD: Morehead 69 kV  
PINEV: Leslie – Pineville 161kV

MONTH	COMPANY NAME	TIE NAME	MAX MW DEL	MAX MW HOUR DEL EST	MAX MW REC	MAX MW HOUR REC EST
1/1/2000	EKPC	ARGENT	12	01/06/2000 20	15	01/16/2000 01
1/1/2000	EKPC	ARGN138	16	01/07/2000 06	37	01/04/2000 03
1/1/2000	EKPC	FALCON	0	01/01/2000 01	30	01/27/2000 10
1/1/2000	EKPC	GRAYSON	0	01/01/2000 01	15	01/27/2000 08
1/1/2000	EKPC	LEECTY	0	01/01/2000 01	16	01/27/2000 08
1/1/2000	EKPC	LEON	22	01/27/2000 09	1	01/14/2000 04
1/1/2000	EKPC	LV-TIE	6	01/03/2000 08	0	01/01/2000 01
1/1/2000	EKPC	THELMA	33	01/04/2000 21	17	01/16/2000 01
1/1/2000	LGEE	MORHEAD	1	01/19/2000 12	40	01/28/2000 09
1/1/2000	TVA	PINEV	0	01/01/2000 01	187	01/18/2000 19
2/1/2000	EKPC	ARGENT	13	02/19/2000 19	15	02/11/2000 02
2/1/2000	EKPC	ARGN138	17	02/21/2000 07	38	02/11/2000 02
2/1/2000	EKPC	FALCON	0	02/01/2000 01	22	02/06/2000 09
2/1/2000	EKPC	GRAYSON	0	02/01/2000 01	12	02/08/2000 08
2/1/2000	EKPC	LEECTY	0	02/01/2000 01	0	02/01/2000 01
2/1/2000	EKPC	LEON	20	02/01/2000 18	6	02/02/2000 11
2/1/2000	EKPC	LV-TIE	6	02/01/2000 08	0	02/01/2000 01
2/1/2000	EKPC	THELMA	57	02/19/2000 14	14	02/13/2000 24
2/1/2000	LGEE	MORHEAD	3	02/19/2000 15	30	02/02/2000 10
2/1/2000	TVA	PINEV	0	02/01/2000 01	136	02/10/2000 08
3/1/2000	EKPC	ARGENT	2	03/02/2000 08	15	03/30/2000 11
3/1/2000	EKPC	ARGN138	7	03/23/2000 07	36	03/11/2000 04
3/1/2000	EKPC	FALCON	0	03/01/2000 01	19	03/13/2000 08
3/1/2000	EKPC	GRAYSON	0	03/01/2000 01	14	03/14/2000 07
3/1/2000	EKPC	LEECTY	0	03/01/2000 01	0	03/01/2000 01
3/1/2000	EKPC	LEON	15	03/03/2000 07	0	03/01/2000 01
3/1/2000	EKPC	LV-TIE	6	03/01/2000 08	0	03/01/2000 01
3/1/2000	EKPC	THELMA	28	03/02/2000 08	14	03/19/2000 04
3/1/2000	LGEE	MORHEAD	0	03/01/2000 01	30	03/18/2000 01
3/1/2000	TVA	PINEV	0	03/01/2000 01	120	03/13/2000 09
4/1/2000	EKPC	ARGENT	11	04/05/2000 07	15	04/02/2000 23
4/1/2000	EKPC	ARGN138	17	04/09/2000 06	35	04/03/2000 02
4/1/2000	EKPC	FALCON	8	04/24/2000 12	15	04/24/2000 12
4/1/2000	EKPC	GRAYSON	0	04/01/2000 01	8	04/01/2000 08
4/1/2000	EKPC	LEECTY	0	04/01/2000 01	0	04/01/2000 01
4/1/2000	EKPC	LEON	31	04/09/2000 08	7	04/04/2000 10
4/1/2000	EKPC	LV-TIE	6	04/01/2000 08	0	04/01/2000 01
4/1/2000	EKPC	THELMA	40	04/13/2000 07	21	04/05/2000 14
4/1/2000	LGEE	MORHEAD	3	04/27/2000 18	45	04/09/2000 13
4/1/2000	TVA	PINEV	6	04/08/2000 03	112	04/19/2000 10
5/1/2000	EKPC	ARGENT	3	05/17/2000 12	17	05/07/2000 23
5/1/2000	EKPC	ARGN138	1	05/31/2000 19	37	05/15/2000 02
5/1/2000	EKPC	FALCON	4	05/01/2000 15	16	05/08/2000 13
5/1/2000	EKPC	GRAYSON	0	05/01/2000 01	10	05/08/2000 12
5/1/2000	EKPC	LEECTY	0	05/01/2000 01	5	05/31/2000 08
5/1/2000	EKPC	LEON	14	05/18/2000 17	0	05/01/2000 01
5/1/2000	EKPC	LV-TIE	6	05/01/2000 07	0	05/01/2000 01
5/1/2000	EKPC	THELMA	42	05/16/2000 21	19	05/28/2000 24
5/1/2000	LGEE	MORHEAD	15	05/16/2000 18	33	05/09/2000 16
5/1/2000	TVA	PINEV	2	05/29/2000 09	121	05/09/2000 16
6/1/2000	EKPC	ARGENT	0	06/01/2000 01	18	06/02/2000 15
6/1/2000	EKPC	ARGN138	15	06/23/2000 15	32	06/06/2000 23
6/1/2000	EKPC	FALCON	0	06/01/2000 01	19	06/12/2000 16
6/1/2000	EKPC	GRAYSON	0	06/01/2000 01	12	06/12/2000 15
6/1/2000	EKPC	LEECTY	0	06/01/2000 01	0	06/01/2000 01
6/1/2000	EKPC	LEON	22	06/02/2000 13	0	06/01/2000 01
6/1/2000	EKPC	LV-TIE	5	06/19/2000 07	0	06/01/2000 01
6/1/2000	EKPC	THELMA	31	06/10/2000 18	14	06/03/2000 12
6/1/2000	LGEE	MORHEAD	0	06/01/2000 01	22	06/01/2000 15
6/1/2000	TVA	PINEV	0	06/01/2000 01	99	06/28/2000 10
7/1/2000	EKPC	ARGENT	2	07/25/2000 12	21	07/11/2000 01
7/1/2000	EKPC	ARGN138	6	07/28/2000 22	33	07/11/2000 01
7/1/2000	EKPC	FALCON	4	07/29/2000 20	18	07/10/2000 11

7/1/2000 EKPC	GRAYSON	0	07/01/2000 01	11	07/03/2000 13
7/1/2000 EKPC	LEECTY	0	07/01/2000 01	24	07/10/2000 13
7/1/2000 EKPC	LEON	31	07/11/2000 15	1	07/30/2000 14
7/1/2000 EKPC	LV-TIE	5	07/01/2000 07	0	07/01/2000 01
7/1/2000 EKPC	THELMA	46	07/15/2000 17	14	07/08/2000 02
7/1/2000 LGEE	MORHEAD	12	07/15/2000 17	18	07/03/2000 24
7/1/2000 TVA	PINEV	23	07/14/2000 21	75	07/31/2000 14
8/1/2000 EKPC	ARGENT	1	08/29/2000 20	17	08/01/2000 02
8/1/2000 EKPC	ARGN138	3	08/10/2000 16	31	08/02/2000 01
8/1/2000 EKPC	FALCON	4	08/07/2000 20	18	08/07/2000 16
8/1/2000 EKPC	GRAYSON	0	08/01/2000 01	12	08/07/2000 14
8/1/2000 EKPC	LEECTY	0	08/01/2000 01	24	08/08/2000 14
8/1/2000 EKPC	LEON	16	08/16/2000 17	2	08/29/2000 18
8/1/2000 EKPC	LV-TIE	5	08/01/2000 07	0	08/01/2000 01
8/1/2000 EKPC	THELMA	55	08/29/2000 18	13	08/19/2000 08
8/1/2000 LGEE	MORHEAD	19	08/17/2000 15	22	08/20/2000 18
8/1/2000 TVA	PINEV	10	08/17/2000 09	76	08/07/2000 16
9/1/2000 EKPC	ARGENT	2	09/12/2000 14	17	09/24/2000 19
9/1/2000 EKPC	ARGN138	27	09/12/2000 14	33	09/26/2000 01
9/1/2000 EKPC	FALCON	2	09/04/2000 16	17	09/13/2000 16
9/1/2000 EKPC	GRAYSON	0	09/01/2000 01	12	09/01/2000 16
9/1/2000 EKPC	LEECTY	0	09/01/2000 01	0	09/01/2000 01
9/1/2000 EKPC	LEON	16	09/01/2000 17	0	09/01/2000 01
9/1/2000 EKPC	LV-TIE	4	09/01/2000 07	0	09/01/2000 01
9/1/2000 EKPC	THELMA	29	09/07/2000 17	20	09/20/2000 08
9/1/2000 LGEE	MORHEAD	1	09/05/2000 14	22	09/18/2000 06
9/1/2000 TVA	PINEV	0	09/01/2000 01	77	09/12/2000 15
10/1/2000 EKPC	ARGENT	3	10/24/2000 16	20	10/07/2000 01
10/1/2000 EKPC	ARGN138	6	10/05/2000 21	34	10/02/2000 01
10/1/2000 EKPC	FALCON	0	10/01/2000 01	18	10/10/2000 07
10/1/2000 EKPC	GRAYSON	0	10/01/2000 01	10	10/04/2000 15
10/1/2000 EKPC	LEECTY	0	10/01/2000 01	7	10/10/2000 08
10/1/2000 EKPC	LEON	12	10/10/2000 09	0	10/01/2000 01
10/1/2000 EKPC	LV-TIE	4	10/02/2000 07	0	10/01/2000 01
10/1/2000 EKPC	THELMA	40	10/24/2000 16	26	10/07/2000 04
10/1/2000 LGEE	MORHEAD	19	10/24/2000 15	34	10/07/2000 23
10/1/2000 TVA	PINEV	10	10/24/2000 16	99	10/30/2000 09
11/1/2000 EKPC	ARGENT	3	11/27/2000 08	16	11/17/2000 01
11/1/2000 EKPC	ARGN138	16	11/22/2000 04	29	11/14/2000 01
11/1/2000 EKPC	FALCON	0	11/01/2000 01	24	11/22/2000 09
11/1/2000 EKPC	GRAYSON	0	11/01/2000 01	13	11/22/2000 07
11/1/2000 EKPC	LEECTY	0	11/01/2000 01	19	11/16/2000 10
11/1/2000 EKPC	LEON	17	11/22/2000 08	0	11/01/2000 01
11/1/2000 EKPC	LV-TIE	8	11/20/2000 08	0	11/01/2000 01
11/1/2000 EKPC	THELMA	40	11/10/2000 10	16	11/04/2000 24
11/1/2000 LGEE	MORHEAD	10	11/13/2000 12	26	11/05/2000 05
11/1/2000 TVA	PINEV	0	11/01/2000 01	135	11/22/2000 10
12/1/2000 EKPC	ARGENT	9	12/17/2000 12	24	12/13/2000 01
12/1/2000 EKPC	ARGN138	20	12/17/2000 16	34	12/13/2000 13
12/1/2000 EKPC	FALCON	0	12/01/2000 01	25	12/23/2000 09
12/1/2000 EKPC	GRAYSON	0	12/01/2000 01	16	12/22/2000 08
12/1/2000 EKPC	LEECTY	0	12/01/2000 01	0	12/01/2000 01
12/1/2000 EKPC	LEON	42	12/12/2000 21	0	12/01/2000 01
12/1/2000 EKPC	LV-TIE	8	12/01/2000 08	0	12/01/2000 01
12/1/2000 EKPC	THELMA	49	12/17/2000 11	15	12/09/2000 09
12/1/2000 LGEE	MORHEAD	0	12/01/2000 01	31	12/10/2000 02
12/1/2000 TVA	PINEV	0	12/01/2000 01	142	12/26/2000 06
1/1/2001 EKPC	ARGENT	5	01/21/2001 09	14	01/29/2001 01
1/1/2001 EKPC	ARGN138	21	01/21/2001 09	29	01/30/2001 03
1/1/2001 EKPC	FALCON	0	01/01/2001 01	27	01/03/2001 09
1/1/2001 EKPC	GRAYSON	0	01/01/2001 01	15	01/03/2001 08
1/1/2001 EKPC	LEECTY	0	01/01/2001 01	2	01/12/2001 10
1/1/2001 EKPC	LEON	23	01/29/2001 12	13	01/03/2001 15
1/1/2001 EKPC	LV-TIE	8	01/02/2001 08	0	01/01/2001 01
1/1/2001 EKPC	THELMA	37	01/09/2001 08	32	01/24/2001 17

1/1/2001	LGEE	MORHEAD	1	01/17/2001	12	26	01/28/2001	09
1/1/2001	TVA	PINEV	0	01/01/2001	01	142	01/26/2001	08
2/1/2001	EKPC	ARGENT	11	02/02/2001	08	14	02/08/2001	23
2/1/2001	EKPC	ARGN138	31	02/03/2001	05	26	02/08/2001	18
2/1/2001	EKPC	FALCON	0	02/01/2001	01	21	02/03/2001	08
2/1/2001	EKPC	GRAYSON	0	02/01/2001	01	13	02/03/2001	08
2/1/2001	EKPC	LEECTY	0	02/01/2001	01	0	02/01/2001	01
2/1/2001	EKPC	LEON	18	02/02/2001	20	0	02/01/2001	01
2/1/2001	EKPC	LV-TIE	7	02/01/2001	08	0	02/01/2001	01
2/1/2001	EKPC	THELMA	34	02/02/2001	10	17	02/14/2001	03
2/1/2001	LGEE	MORHEAD	0	02/01/2001	01	33	02/24/2001	03
2/1/2001	TVA	PINEV	0	02/01/2001	01	132	02/22/2001	21
3/1/2001	EKPC	ARGENT	2	03/05/2001	22	18	03/30/2001	04
3/1/2001	EKPC	ARGN138	23	03/23/2001	07	24	03/30/2001	13
3/1/2001	EKPC	FALCON	0	03/01/2001	01	21	03/10/2001	07
3/1/2001	EKPC	GRAYSON	0	03/01/2001	01	12	03/01/2001	09
3/1/2001	EKPC	LEECTY	0	03/01/2001	01	14	03/13/2001	11
3/1/2001	EKPC	LEON	17	03/05/2001	20	0	03/01/2001	01
3/1/2001	EKPC	LV-TIE	7	03/01/2001	08	0	03/01/2001	01
3/1/2001	EKPC	THELMA	29	03/01/2001	08	26	03/22/2001	02
3/1/2001	LGEE	MORHEAD	0	03/01/2001	01	36	03/26/2001	11
3/1/2001	TVA	PINEV	0	03/01/2001	01	172	03/11/2001	11
4/1/2001	EKPC	ARGENT	2	04/12/2001	16	18	04/06/2001	01
4/1/2001	EKPC	ARGN138	22	04/13/2001	17	31	04/30/2001	24
4/1/2001	EKPC	FALCON	8	04/17/2001	08	17	04/17/2001	08
4/1/2001	EKPC	GRAYSON	0	04/01/2001	01	10	04/02/2001	07
4/1/2001	EKPC	LEECTY	0	04/01/2001	01	0	04/01/2001	01
4/1/2001	EKPC	LEON	15	04/11/2001	11	1	04/06/2001	01
4/1/2001	EKPC	LV-TIE	5	04/02/2001	07	0	04/01/2001	01
4/1/2001	EKPC	THELMA	39	04/17/2001	17	22	04/21/2001	05
4/1/2001	LGEE	MORHEAD	7	04/10/2001	19	26	04/26/2001	05
4/1/2001	TVA	PINEV	1	04/22/2001	13	127	04/02/2001	08
5/1/2001	EKPC	ARGENT	14	05/18/2001	16	36	05/16/2001	24
5/1/2001	EKPC	ARGN138	24	05/21/2001	17	33	05/01/2001	02
5/1/2001	EKPC	FALCON	2	05/17/2001	02	16	05/12/2001	17
5/1/2001	EKPC	GRAYSON	0	05/01/2001	01	10	05/17/2001	13
5/1/2001	EKPC	LEECTY	0	05/01/2001	01	14	05/21/2001	18
5/1/2001	EKPC	LEON	15	05/18/2001	16	4	05/17/2001	01
5/1/2001	EKPC	LV-TIE	5	05/01/2001	07	0	05/01/2001	01
5/1/2001	EKPC	THELMA	50	05/15/2001	15	25	05/25/2001	24
5/1/2001	LGEE	MORHEAD	9	05/05/2001	13	30	05/24/2001	15
5/1/2001	TVA	PINEV	10	05/06/2001	17	112	05/25/2001	09
6/1/2001	EKPC	ARGENT	1	06/06/2001	21	22	06/15/2001	04
6/1/2001	EKPC	ARGN138	11	06/08/2001	21	34	06/15/2001	04
6/1/2001	EKPC	FALCON	0	06/01/2001	01	19	06/05/2001	13
6/1/2001	EKPC	GRAYSON	0	06/01/2001	01	12	06/15/2001	14
6/1/2001	EKPC	LEECTY	0	06/01/2001	01	0	06/01/2001	01
6/1/2001	EKPC	LEON	30	06/15/2001	12	0	06/01/2001	01
6/1/2001	EKPC	LV-TIE	5	06/01/2001	07	0	06/01/2001	01
6/1/2001	EKPC	THELMA	38	06/12/2001	18	30	06/05/2001	09
6/1/2001	LGEE	MORHEAD	1	06/18/2001	14	25	06/01/2001	15
6/1/2001	TVA	PINEV	0	06/01/2001	01	133	06/28/2001	14
7/1/2001	EKPC	ARGENT	7	07/30/2001	15	18	07/04/2001	01
7/1/2001	EKPC	ARGN138	11	07/30/2001	18	37	07/07/2001	01
7/1/2001	EKPC	FALCON	2	07/08/2001	14	16	07/06/2001	16
7/1/2001	EKPC	GRAYSON	0	07/01/2001	01	12	07/10/2001	15
7/1/2001	EKPC	LEECTY	0	07/01/2001	01	0	07/01/2001	01
7/1/2001	EKPC	LEON	18	07/31/2001	16	2	07/03/2001	13
7/1/2001	EKPC	LV-TIE	5	07/02/2001	07	0	07/01/2001	01
7/1/2001	EKPC	THELMA	48	07/29/2001	19	15	07/07/2001	01
7/1/2001	LGEE	MORHEAD	5	07/03/2001	15	26	07/01/2001	13
7/1/2001	TVA	PINEV	1	07/25/2001	02	128	07/24/2001	15
8/1/2001	EKPC	ARGENT	7	08/01/2001	13	16	08/29/2001	04
8/1/2001	EKPC	ARGN138	19	08/30/2001	10	21	08/31/2001	24
8/1/2001	EKPC	FALCON	0	08/01/2001	01	18	08/09/2001	13

8/1/2001	EKPC	GRAYSON	0	08/01/2001 01	13	08/08/2001 14
8/1/2001	EKPC	LEECTY	0	08/01/2001 01	0	08/01/2001 01
8/1/2001	EKPC	LEON	19	08/02/2001 11	0	08/01/2001 01
8/1/2001	EKPC	LV-TIE	5	08/01/2001 07	0	08/01/2001 01
8/1/2001	EKPC	THELMA	52	08/06/2001 19	21	08/19/2001 04
8/1/2001	LGEE	MORHEAD	0	08/01/2001 01	30	08/09/2001 14
8/1/2001	TVA	PINEV	0	08/01/2001 01	163	08/09/2001 16
9/1/2001	EKPC	ARGENT	1	09/07/2001 16	15	09/01/2001 01
9/1/2001	EKPC	ARGN138	9	09/13/2001 18	27	09/26/2001 15
9/1/2001	EKPC	FALCON	0	09/01/2001 01	16	09/05/2001 16
9/1/2001	EKPC	GRAYSON	0	09/01/2001 01	12	09/07/2001 15
9/1/2001	EKPC	LEECTY	0	09/01/2001 01	0	09/01/2001 01
9/1/2001	EKPC	LEON	15	09/07/2001 16	0	09/01/2001 01
9/1/2001	EKPC	LV-TIE	5	09/01/2001 07	0	09/01/2001 01
9/1/2001	EKPC	THELMA	31	09/07/2001 17	21	09/10/2001 24
9/1/2001	LGEE	MORHEAD	0	09/01/2001 01	27	09/08/2001 10
9/1/2001	TVA	PINEV	0	09/01/2001 01	137	09/25/2001 11
10/1/2001	EKPC	ARGENT	1	10/17/2001 08	23	10/28/2001 02
10/1/2001	EKPC	ARGN138	15	10/18/2001 08	26	10/24/2001 24
10/1/2001	EKPC	FALCON	8	10/24/2001 23	16	10/29/2001 07
10/1/2001	EKPC	GRAYSON	0	10/01/2001 01	10	10/29/2001 07
10/1/2001	EKPC	LEECTY	0	10/01/2001 01	0	10/01/2001 01
10/1/2001	EKPC	LEON	15	10/18/2001 07	0	10/01/2001 01
10/1/2001	EKPC	LV-TIE	6	10/18/2001 07	0	10/01/2001 01
10/1/2001	EKPC	THELMA	32	10/26/2001 20	13	10/13/2001 03
10/1/2001	LGEE	MORHEAD	0	10/01/2001 01	23	10/07/2001 08
10/1/2001	TVA	PINEV	0	10/01/2001 01	149	10/19/2001 08
11/1/2001	EKPC	ARGENT	0	11/01/2001 01	16	11/29/2001 24
11/1/2001	EKPC	ARGN138	15	11/15/2001 07	35	11/26/2001 13
11/1/2001	EKPC	FALCON	8	11/06/2001 12	18	11/06/2001 12
11/1/2001	EKPC	GRAYSON	0	11/01/2001 01	10	11/06/2001 09
11/1/2001	EKPC	LEECTY	0	11/01/2001 01	0	11/01/2001 01
11/1/2001	EKPC	LEON	15	11/15/2001 07	0	11/01/2001 01
11/1/2001	EKPC	LV-TIE	6	11/01/2001 08	0	11/01/2001 01
11/1/2001	EKPC	THELMA	30	11/09/2001 08	12	11/24/2001 02
11/1/2001	LGEE	MORHEAD	0	11/01/2001 01	34	11/22/2001 01
11/1/2001	TVA	PINEV	0	11/01/2001 01	152	11/20/2001 10
12/1/2001	EKPC	ARGENT	4	12/20/2001 07	16	12/18/2001 01
12/1/2001	EKPC	ARGN138	13	12/20/2001 09	31	12/14/2001 14
12/1/2001	EKPC	FALCON	0	12/01/2001 01	22	12/31/2001 09
12/1/2001	EKPC	GRAYSON	0	12/01/2001 01	15	12/19/2001 08
12/1/2001	EKPC	LEECTY	0	12/01/2001 01	0	12/01/2001 01
12/1/2001	EKPC	LEON	16	12/21/2001 08	0	12/01/2001 01
12/1/2001	EKPC	LV-TIE	9	12/01/2001 08	0	12/01/2001 01
12/1/2001	EKPC	THELMA	46	12/26/2001 08	5	12/18/2001 01
12/1/2001	LGEE	MORHEAD	0	12/01/2001 01	28	12/31/2001 09
12/1/2001	TVA	PINEV	0	12/01/2001 01	145	12/31/2001 24
1/1/2002	EKPC	ARGENT	4	01/03/2002 20	15	01/23/2002 03
1/1/2002	EKPC	ARGN138	19	01/26/2002 08	28	01/11/2002 14
1/1/2002	EKPC	FALCON	0	01/01/2002 01	24	01/04/2002 09
1/1/2002	EKPC	GRAYSON	0	01/01/2002 01	15	01/02/2002 09
1/1/2002	EKPC	LEECTY	0	01/01/2002 01	12	01/31/2002 11
1/1/2002	EKPC	LEON	21	01/04/2002 09	0	01/01/2002 01
1/1/2002	EKPC	LV-TIE	8	01/02/2002 08	0	01/01/2002 01
1/1/2002	EKPC	THELMA	38	01/03/2002 20	13	01/29/2002 02
1/1/2002	LGEE	MORHEAD	0	01/01/2002 01	29	01/25/2002 23
1/1/2002	TVA	PINEV	0	01/01/2002 01	164	01/02/2002 08
2/1/2002	EKPC	ARGENT	1	02/02/2002 09	14	02/09/2002 17
2/1/2002	EKPC	ARGN138	8	02/05/2002 03	28	02/21/2002 17
2/1/2002	EKPC	FALCON	0	02/01/2002 01	24	02/05/2002 08
2/1/2002	EKPC	GRAYSON	0	02/01/2002 01	13	02/05/2002 08
2/1/2002	EKPC	LEECTY	0	02/01/2002 01	0	02/01/2002 01
2/1/2002	EKPC	LEON	19	02/05/2002 08	0	02/01/2002 01
2/1/2002	EKPC	LV-TIE	7	02/01/2002 08	0	02/01/2002 01
2/1/2002	EKPC	THELMA	42	02/26/2002 17	10	02/10/2002 05

2/1/2002 LGEE	MORHEAD	3	02/26/2002 17	29	02/04/2002 21
2/1/2002 TVA	PINEV	0	02/01/2002 01	154	02/14/2002 09
3/1/2002 EKPC	ARGENT	8	03/04/2002 08	18	03/15/2002 04
3/1/2002 EKPC	ARGN138	30	03/23/2002 07	32	03/15/2002 01
3/1/2002 EKPC	FALCON	0	03/01/2002 01	23	03/01/2002 08
3/1/2002 EKPC	GRAYSON	0	03/01/2002 01	13	03/01/2002 08
3/1/2002 EKPC	LEECTY	0	03/01/2002 01	0	03/01/2002 01
3/1/2002 EKPC	LEON	21	03/04/2002 11	0	03/01/2002 01
3/1/2002 EKPC	LV-TIE	5	03/01/2002 08	0	03/01/2002 01
3/1/2002 EKPC	THELMA	38	03/03/2002 19	18	03/07/2002 05
3/1/2002 LGEE	MORHEAD	0	03/01/2002 01	32	03/11/2002 08
3/1/2002 TVA	PINEV	0	03/01/2002 01	137	03/01/2002 09
4/1/2002 EKPC	ARGENT	13	04/02/2002 10	11	04/11/2002 24
4/1/2002 EKPC	ARGN138	21	04/04/2002 05	22	04/13/2002 02
4/1/2002 EKPC	FALCON	2	04/28/2002 03	16	04/19/2002 15
4/1/2002 EKPC	GRAYSON	0	04/01/2002 01	10	04/16/2002 16
4/1/2002 EKPC	LEECTY	0	04/01/2002 01	12	04/15/2002 13
4/1/2002 EKPC	LEON	17	04/18/2002 17	0	04/01/2002 01
4/1/2002 EKPC	LV-TIE	5	04/01/2002 08	0	04/01/2002 01
4/1/2002 EKPC	THELMA	37	04/09/2002 21	9	04/28/2002 07
4/1/2002 LGEE	MORHEAD	6	04/09/2002 12	25	04/05/2002 18
4/1/2002 TVA	PINEV	1	04/21/2002 19	117	04/05/2002 21
5/1/2002 EKPC	ARGENT	4	05/08/2002 10	14	05/28/2002 23
5/1/2002 EKPC	ARGN138	24	05/01/2002 10	25	05/29/2002 01
5/1/2002 EKPC	FALCON	2	05/07/2002 04	16	05/31/2002 16
5/1/2002 EKPC	GRAYSON	0	05/01/2002 01	11	05/31/2002 15
5/1/2002 EKPC	LEECTY	0	05/01/2002 01	0	05/01/2002 01
5/1/2002 EKPC	LEON	19	05/04/2002 09	0	05/01/2002 01
5/1/2002 EKPC	LV-TIE	4	05/01/2002 07	0	05/01/2002 01
5/1/2002 EKPC	THELMA	29	05/06/2002 21	15	05/09/2002 10
5/1/2002 LGEE	MORHEAD	12	05/08/2002 09	21	05/19/2002 07
5/1/2002 TVA	PINEV	2	05/06/2002 18	98	05/20/2002 06
6/1/2002 EKPC	ARGENT	1	06/08/2002 15	17	06/05/2002 02
6/1/2002 EKPC	ARGN138	18	06/08/2002 16	31	06/22/2002 05
6/1/2002 EKPC	FALCON	2	06/02/2002 16	18	06/10/2002 15
6/1/2002 EKPC	GRAYSON	0	06/01/2002 01	12	06/04/2002 15
6/1/2002 EKPC	LEECTY	0	06/01/2002 01	31	06/25/2002 20
6/1/2002 EKPC	LEON	18	06/24/2002 16	0	06/01/2002 01
6/1/2002 EKPC	LV-TIE	4	06/01/2002 07	0	06/01/2002 01
6/1/2002 EKPC	THELMA	40	06/22/2002 17	8	06/16/2002 02
6/1/2002 LGEE	MORHEAD	2	06/03/2002 11	25	06/25/2002 15
6/1/2002 TVA	PINEV	0	06/01/2002 01	129	06/11/2002 16
7/1/2002 EKPC	ARGENT	3	07/09/2002 13	16	07/21/2002 06
7/1/2002 EKPC	ARGN138	12	07/07/2002 15	31	07/31/2002 15
7/1/2002 EKPC	FALCON	2	07/03/2002 21	34	07/22/2002 18
7/1/2002 EKPC	GRAYSON	0	07/01/2002 01	13	07/02/2002 15
7/1/2002 EKPC	LEECTY	0	07/01/2002 01	0	07/01/2002 01
7/1/2002 EKPC	LEON	18	07/17/2002 16	0	07/01/2002 01
7/1/2002 EKPC	LV-TIE	6	07/08/2002 07	0	07/01/2002 01
7/1/2002 EKPC	THELMA	44	07/11/2002 14	7	07/06/2002 04
7/1/2002 LGEE	MORHEAD	4	07/11/2002 17	31	07/31/2002 14
7/1/2002 TVA	PINEV	0	07/01/2002 01	129	07/30/2002 21
8/1/2002 EKPC	ARGENT	2	08/05/2002 19	17	08/01/2002 05
8/1/2002 EKPC	ARGN138	25	08/10/2002 14	33	08/01/2002 04
8/1/2002 EKPC	FALCON	0	08/01/2002 01	21	08/05/2002 15
8/1/2002 EKPC	GRAYSON	0	08/01/2002 01	13	08/01/2002 15
8/1/2002 EKPC	LEECTY	0	08/01/2002 01	15	08/14/2002 09
8/1/2002 EKPC	LEON	18	08/12/2002 14	0	08/01/2002 01
8/1/2002 EKPC	LV-TIE	6	08/01/2002 07	0	08/01/2002 01
8/1/2002 EKPC	THELMA	37	08/30/2002 15	9	08/06/2002 24
8/1/2002 LGEE	MORHEAD	4	08/13/2002 09	32	08/16/2002 16
8/1/2002 TVA	PINEV	0	08/01/2002 01	133	08/02/2002 15
9/1/2002 EKPC	ARGENT	3	09/07/2002 13	19	09/26/2002 22
9/1/2002 EKPC	ARGN138	24	09/07/2002 13	18	09/29/2002 02
9/1/2002 EKPC	FALCON	0	09/01/2002 01	20	09/04/2002 16

9/1/2002 EKPC	GRAYSON	0	09/01/2002 01	13	09/03/2002 14
9/1/2002 EKPC	LEECTY	0	09/01/2002 01	0	09/01/2002 01
9/1/2002 EKPC	LEON	19	09/10/2002 11	7	09/25/2002 02
9/1/2002 EKPC	LV-TIE	5	09/23/2002 07	0	09/01/2002 01
9/1/2002 EKPC	THELMA	41	09/10/2002 11	32	09/26/2002 08
9/1/2002 LGEE	MORHEAD	0	09/01/2002 01	34	09/20/2002 16
9/1/2002 TVA	PINEV	0	09/01/2002 01	130	09/04/2002 15
10/1/2002 EKPC	ARGENT	3	10/30/2002 11	16	10/08/2002 22
10/1/2002 EKPC	ARGN138	18	10/07/2002 08	18	10/06/2002 01
10/1/2002 EKPC	FALCON	0	10/01/2002 01	16	10/02/2002 16
10/1/2002 EKPC	GRAYSON	0	10/01/2002 01	10	10/02/2002 14
10/1/2002 EKPC	LEECTY	0	10/01/2002 01	0	10/01/2002 01
10/1/2002 EKPC	LEON	14	10/01/2002 13	0	10/01/2002 01
10/1/2002 EKPC	LV-TIE	5	10/01/2002 07	0	10/01/2002 01
10/1/2002 EKPC	THELMA	48	10/29/2002 19	13	10/19/2002 24
10/1/2002 LGEE	MORHEAD	10	10/28/2002 19	19	10/19/2002 24
10/1/2002 TVA	PINEV	0	10/01/2002 01	115	10/04/2002 14
11/1/2002 EKPC	ARGENT	2	11/07/2002 08	15	11/11/2002 02
11/1/2002 EKPC	ARGN138	9	11/20/2002 07	30	11/05/2002 19
11/1/2002 EKPC	FALCON	0	11/01/2002 01	19	11/18/2002 09
11/1/2002 EKPC	GRAYSON	0	11/01/2002 01	12	11/28/2002 09
11/1/2002 EKPC	LEECTY	0	11/01/2002 01	0	11/01/2002 01
11/1/2002 EKPC	LEON	14	11/06/2002 14	0	11/01/2002 01
11/1/2002 EKPC	LV-TIE	6	11/18/2002 08	0	11/01/2002 01
11/1/2002 EKPC	THELMA	48	11/06/2002 19	15	11/12/2002 12
11/1/2002 LGEE	MORHEAD	5	11/06/2002 14	24	11/14/2002 03
11/1/2002 TVA	PINEV	0	11/01/2002 01	135	11/06/2002 20
12/1/2002 EKPC	ARGENT	4	12/16/2002 19	17	12/11/2002 04
12/1/2002 EKPC	ARGN138	27	12/15/2002 09	22	12/09/2002 13
12/1/2002 EKPC	FALCON	0	12/01/2002 01	23	12/07/2002 09
12/1/2002 EKPC	GRAYSON	0	12/01/2002 01	13	12/04/2002 08
12/1/2002 EKPC	LEECTY	0	12/01/2002 01	0	12/01/2002 01
12/1/2002 EKPC	LEON	20	12/09/2002 10	0	12/01/2002 01
12/1/2002 EKPC	LV-TIE	8	12/16/2002 08	0	12/01/2002 01
12/1/2002 EKPC	THELMA	35	12/09/2002 08	18	12/31/2002 02
12/1/2002 LGEE	MORHEAD	0	12/01/2002 01	34	12/22/2002 19
12/1/2002 TVA	PINEV	0	12/01/2002 01	154	12/21/2002 20
1/1/2003 EKPC	ARGENT	6	01/07/2003 07	13	01/01/2003 01
1/1/2003 EKPC	ARGN138	28	01/03/2003 14	23	01/20/2003 03
1/1/2003 EKPC	FALCON	0	01/01/2003 01	27	01/23/2003 20
1/1/2003 EKPC	GRAYSON	0	01/01/2003 01	16	01/23/2003 19
1/1/2003 EKPC	LEECTY	0	01/01/2003 01	0	01/01/2003 01
1/1/2003 EKPC	LEON	55	01/16/2003 01	0	01/01/2003 01
1/1/2003 EKPC	LV-TIE	8	01/02/2003 08	0	01/01/2003 01
1/1/2003 EKPC	THELMA	44	01/26/2003 19	13	01/01/2003 02
1/1/2003 LGEE	MORHEAD	0	01/01/2003 01	33	01/04/2003 19
1/1/2003 TVA	PINEV	0	01/01/2003 01	160	01/13/2003 09
2/1/2003 EKPC	ARGENT	26	02/23/2003 10	15	02/16/2003 03
2/1/2003 EKPC	ARGN138	22	02/06/2003 07	10	02/04/2003 03
2/1/2003 EKPC	FALCON	1	02/24/2003 03	21	02/08/2003 24
2/1/2003 EKPC	GRAYSON	0	02/01/2003 01	15	02/08/2003 09
2/1/2003 EKPC	LEECTY	0	02/01/2003 01	23	02/27/2003 14
2/1/2003 EKPC	LEON	25	02/04/2003 11	1	02/18/2003 04
2/1/2003 EKPC	LV-TIE	7	02/01/2003 08	0	02/01/2003 01
2/1/2003 EKPC	THELMA	51	02/07/2003 21	24	02/17/2003 04
2/1/2003 LGEE	MORHEAD	1	02/07/2003 21	31	02/14/2003 03
2/1/2003 TVA	PINEV	0	02/01/2003 01	155	02/18/2003 14
3/1/2003 EKPC	ARGENT	26	03/03/2003 08	17	03/29/2003 03
3/1/2003 EKPC	ARGN138	0	03/01/2003 01	0	03/01/2003 01
3/1/2003 EKPC	FALCON	0	03/01/2003 01	20	03/04/2003 08
3/1/2003 EKPC	GRAYSON	0	03/01/2003 01	13	03/03/2003 08
3/1/2003 EKPC	LEECTY	0	03/01/2003 01	1	03/12/2003 12
3/1/2003 EKPC	LEON	19	03/03/2003 07	5	03/26/2003 03
3/1/2003 EKPC	LV-TIE	7	03/01/2003 08	0	03/01/2003 01
3/1/2003 EKPC	THELMA	60	03/06/2003 08	17	03/26/2003 04

3/1/2003 LGEE	MORHEAD	3	03/24/2003 13	31	03/04/2003 03
3/1/2003 TVA	PINEV	0	03/01/2003 01	151	03/11/2003 21
4/1/2003 EKPC	ARGENT	24	04/09/2003 17	38	04/30/2003 02
4/1/2003 EKPC	ARGN138	0	04/01/2003 01	0	04/01/2003 01
4/1/2003 EKPC	FALCON	0	04/01/2003 01	14	04/01/2003 08
4/1/2003 EKPC	GRAYSON	0	04/01/2003 01	9	04/01/2003 10
4/1/2003 EKPC	LEECTY	0	04/01/2003 01	0	04/01/2003 01
4/1/2003 EKPC	LEON	17	04/09/2003 07	4	04/21/2003 05
4/1/2003 EKPC	LV-TIE	5	04/28/2003 07	0	04/01/2003 01
4/1/2003 EKPC	THELMA	47	04/09/2003 07	15	04/30/2003 15
4/1/2003 LGEE	MORHEAD	4	04/04/2003 01	21	04/12/2003 23
4/1/2003 TVA	PINEV	0	04/01/2003 01	127	04/14/2003 07
5/1/2003 EKPC	ARGENT	14	05/11/2003 10	36	05/02/2003 03
5/1/2003 EKPC	ARGN138	0	05/01/2003 01	0	05/01/2003 01
5/1/2003 EKPC	FALCON	2	05/01/2003 23	14	05/13/2003 12
5/1/2003 EKPC	GRAYSON	0	05/01/2003 01	10	05/08/2003 16
5/1/2003 EKPC	LEECTY	0	05/01/2003 01	0	05/01/2003 01
5/1/2003 EKPC	LEON	18	05/10/2003 21	1	05/02/2003 02
5/1/2003 EKPC	LV-TIE	5	05/01/2003 07	0	05/01/2003 01
5/1/2003 EKPC	THELMA	33	05/19/2003 21	17	05/09/2003 16
5/1/2003 LGEE	MORHEAD	5	05/09/2003 08	19	05/04/2003 12
5/1/2003 TVA	PINEV	2	05/05/2003 08	94	05/14/2003 06
6/1/2003 EKPC	ARGENT	24	06/17/2003 16	34	06/27/2003 24
6/1/2003 EKPC	ARGN138	0	06/01/2003 01	0	06/01/2003 01
6/1/2003 EKPC	FALCON	0	06/01/2003 01	16	06/26/2003 13
6/1/2003 EKPC	GRAYSON	0	06/01/2003 01	12	06/24/2003 16
6/1/2003 EKPC	LEECTY	0	06/01/2003 01	0	06/01/2003 01
6/1/2003 EKPC	LEON	19	06/18/2003 12	2	06/29/2003 05
6/1/2003 EKPC	LV-TIE	6	06/30/2003 07	0	06/01/2003 01
6/1/2003 EKPC	THELMA	45	06/30/2003 16	7	06/26/2003 04
6/1/2003 LGEE	MORHEAD	2	06/02/2003 17	21	06/26/2003 13
6/1/2003 TVA	PINEV	0	06/01/2003 01	125	06/26/2003 16
7/1/2003 EKPC	ARGENT	14	07/11/2003 18	35	07/04/2003 04
7/1/2003 EKPC	ARGN138	9	07/30/2003 16	15	07/28/2003 05
7/1/2003 EKPC	FALCON	0	07/01/2003 01	18	07/08/2003 15
7/1/2003 EKPC	GRAYSON	0	07/01/2003 01	13	07/08/2003 12
7/1/2003 EKPC	LEECTY	0	07/01/2003 01	9	07/15/2003 10
7/1/2003 EKPC	LEON	18	07/25/2003 15	1	07/04/2003 02
7/1/2003 EKPC	LV-TIE	6	07/01/2003 07	0	07/01/2003 01
7/1/2003 EKPC	THELMA	45	07/03/2003 12	9	07/23/2003 01
7/1/2003 LGEE	MORHEAD	2	07/09/2003 18	20	07/04/2003 15
7/1/2003 TVA	PINEV	0	07/01/2003 01	134	07/08/2003 13
8/1/2003 EKPC	ARGENT	25	08/28/2003 16	24	08/23/2003 24
8/1/2003 EKPC	ARGN138	18	08/28/2003 17	36	08/29/2003 09
8/1/2003 EKPC	FALCON	0	08/01/2003 01	20	08/27/2003 16
8/1/2003 EKPC	GRAYSON	0	08/01/2003 01	14	08/14/2003 15
8/1/2003 EKPC	LEECTY	0	08/01/2003 01	19	08/21/2003 10
8/1/2003 EKPC	LEON	23	08/28/2003 16	0	08/01/2003 01
8/1/2003 EKPC	LV-TIE	6	08/01/2003 07	0	08/01/2003 01
8/1/2003 EKPC	THELMA	50	08/24/2003 16	7	08/13/2003 01
8/1/2003 LGEE	MORHEAD	15	08/24/2003 16	25	08/13/2003 16
8/1/2003 TVA	PINEV	2	08/24/2003 23	132	08/13/2003 13
9/1/2003 EKPC	ARGENT	1	09/04/2003 16	16	09/17/2003 03
9/1/2003 EKPC	ARGN138	27	09/04/2003 16	33	09/13/2003 03
9/1/2003 EKPC	FALCON	0	09/01/2003 01	17	09/01/2003 15
9/1/2003 EKPC	GRAYSON	0	09/01/2003 01	11	09/01/2003 11
9/1/2003 EKPC	LEECTY	0	09/01/2003 01	8	09/30/2003 09
9/1/2003 EKPC	LEON	14	09/01/2003 13	0	09/01/2003 01
9/1/2003 EKPC	LV-TIE	6	09/02/2003 07	0	09/01/2003 01
9/1/2003 EKPC	THELMA	36	09/10/2003 17	17	09/23/2003 02
9/1/2003 LGEE	MORHEAD	4	09/18/2003 17	20	09/14/2003 19
9/1/2003 TVA	PINEV	0	09/01/2003 01	123	09/04/2003 11
10/1/2003 EKPC	ARGENT	0	10/01/2003 01	17	10/10/2003 04
10/1/2003 EKPC	ARGN138	8	10/30/2003 07	32	10/26/2003 01
10/1/2003 EKPC	FALCON	0	10/01/2003 01	15	10/02/2003 09

10/1/2003 EKPC	GRAYSON	0	10/01/2003 01	10	10/24/2003 08
10/1/2003 EKPC	LEECTY	0	10/01/2003 01	7	10/01/2003 09
10/1/2003 EKPC	LEON	15	10/20/2003 15	0	10/01/2003 01
10/1/2003 EKPC	LV-TIE	5	10/01/2003 07	0	10/01/2003 01
10/1/2003 EKPC	THELMA	32	10/27/2003 09	14	10/02/2003 14
10/1/2003 LGEE	MORHEAD	6	10/20/2003 17	22	10/02/2003 20
10/1/2003 TVA	PINEV	0	10/01/2003 01	95	10/02/2003 09
11/1/2003 EKPC	ARGENT	9	11/25/2003 19	17	11/12/2003 05
11/1/2003 EKPC	ARGN138	31	11/14/2003 07	16	11/10/2003 24
11/1/2003 EKPC	FALCON	3	11/04/2003 13	18	11/14/2003 07
11/1/2003 EKPC	GRAYSON	0	11/01/2003 01	11	11/14/2003 07
11/1/2003 EKPC	LEECTY	0	11/01/2003 01	4	11/13/2003 17
11/1/2003 EKPC	LEON	25	11/21/2003 11	0	11/01/2003 01
11/1/2003 EKPC	LV-TIE	6	11/03/2003 08	0	11/01/2003 01
11/1/2003 EKPC	THELMA	47	11/28/2003 19	13	11/23/2003 03
11/1/2003 LGEE	MORHEAD	13	11/04/2003 11	21	11/22/2003 20
11/1/2003 TVA	PINEV	2	11/23/2003 12	141	11/25/2003 09
12/1/2003 EKPC	ARGENT	27	12/02/2003 09	11	12/10/2003 05
12/1/2003 EKPC	ARGN138	33	12/27/2003 08	7	12/09/2003 15
12/1/2003 EKPC	FALCON	0	12/01/2003 01	23	12/21/2003 09
12/1/2003 EKPC	GRAYSON	0	12/01/2003 01	13	12/02/2003 08
12/1/2003 EKPC	LEECTY	0	12/01/2003 01	25	12/17/2003 09
12/1/2003 EKPC	LEON	22	12/02/2003 09	0	12/01/2003 01
12/1/2003 EKPC	LV-TIE	6	12/01/2003 08	0	12/01/2003 01
12/1/2003 EKPC	THELMA	47	12/17/2003 08	8	12/10/2003 03
12/1/2003 LGEE	MORHEAD	0	12/01/2003 01	26	12/21/2003 09
12/1/2003 TVA	PINEV	2	12/22/2003 09	159	12/22/2003 09
1/1/2004 EKPC	ARGENT	10	01/07/2004 06	10	01/26/2004 17
1/1/2004 EKPC	ARGN138	34	01/10/2004 22	12	01/26/2004 18
1/1/2004 EKPC	FALCON	0	01/01/2004 01	24	01/11/2004 08
1/1/2004 EKPC	GRAYSON	0	01/01/2004 01	17	01/31/2004 07
1/1/2004 EKPC	LEECTY	0	01/01/2004 01	0	01/01/2004 01
1/1/2004 EKPC	LEON	24	01/31/2004 09	0	01/01/2004 01
1/1/2004 EKPC	LV-TIE	6	01/02/2004 08	0	01/01/2004 01
1/1/2004 EKPC	THELMA	61	01/31/2004 09	5	01/26/2004 17
1/1/2004 LGEE	MORHEAD	0	01/01/2004 01	32	01/25/2004 19
1/1/2004 TVA	PINEV	0	01/01/2004 01	193	01/28/2004 10
2/1/2004 EKPC	ARGENT	11	02/07/2004 20	10	02/29/2004 15
2/1/2004 EKPC	ARGN138	29	02/09/2004 06	10	02/20/2004 13
2/1/2004 EKPC	FALCON	0	02/01/2004 01	22	02/01/2004 09
2/1/2004 EKPC	GRAYSON	0	02/01/2004 01	15	02/01/2004 09
2/1/2004 EKPC	LEECTY	0	02/01/2004 01	0	02/01/2004 01
2/1/2004 EKPC	LEON	19	02/09/2004 12	0	02/01/2004 01
2/1/2004 EKPC	LV-TIE	6	02/02/2004 08	0	02/01/2004 01
2/1/2004 EKPC	THELMA	49	02/03/2004 19	5	02/29/2004 16
2/1/2004 LGEE	MORHEAD	0	02/01/2004 01	26	02/18/2004 09
2/1/2004 TVA	PINEV	0	02/01/2004 01	165	02/02/2004 09
3/1/2004 EKPC	ARGENT	10	03/11/2004 07	11	03/02/2004 03
3/1/2004 EKPC	ARGN138	33	03/11/2004 07	7	03/02/2004 02
3/1/2004 EKPC	FALCON	0	03/01/2004 01	20	03/23/2004 07
3/1/2004 EKPC	GRAYSON	0	03/01/2004 01	13	03/23/2004 07
3/1/2004 EKPC	LEECTY	0	03/01/2004 01	8	03/31/2004 10
3/1/2004 EKPC	LEON	29	03/24/2004 10	0	03/01/2004 01
3/1/2004 EKPC	LV-TIE	8	03/15/2004 08	0	03/01/2004 01
3/1/2004 EKPC	THELMA	52	03/12/2004 07	7	03/06/2004 01
3/1/2004 LGEE	MORHEAD	11	03/31/2004 07	25	03/06/2004 20
3/1/2004 TVA	PINEV	12	03/28/2004 16	160	03/08/2004 20
4/1/2004 EKPC	ARGENT	4	04/15/2004 07	14	04/08/2004 01
4/1/2004 EKPC	ARGN138	30	04/06/2004 06	0	04/01/2004 01
4/1/2004 EKPC	FALCON	0	04/01/2004 01	18	04/06/2004 06
4/1/2004 EKPC	GRAYSON	0	04/01/2004 01	11	04/05/2004 07
4/1/2004 EKPC	LEECTY	0	04/01/2004 01	12	04/26/2004 12
4/1/2004 EKPC	LEON	15	04/01/2004 18	0	04/01/2004 01
4/1/2004 EKPC	LV-TIE	8	04/01/2004 08	0	04/01/2004 01
4/1/2004 EKPC	THELMA	34	04/01/2004 08	27	04/08/2004 01

4/1/2004	LGEE	MORHEAD	2	04/01/2004	02	26	04/08/2004	05
4/1/2004	TVA	PINEV	0	04/01/2004	01	145	04/05/2004	08
5/1/2004	EKPC	ARGENT	12	05/24/2004	12	15	05/14/2004	18
5/1/2004	EKPC	ARGN138	30	05/24/2004	14	11	05/17/2004	02
5/1/2004	EKPC	FALCON	1	05/30/2004	21	19	05/14/2004	13
5/1/2004	EKPC	GRAYSON	0	05/01/2004	01	12	05/21/2004	14
5/1/2004	EKPC	LEECTY	0	05/01/2004	01	20	05/10/2004	15
5/1/2004	EKPC	LEON	15	05/24/2004	15	11	05/24/2004	12
5/1/2004	EKPC	LV-TIE	8	05/01/2004	07	0	05/01/2004	01
5/1/2004	EKPC	THELMA	40	05/23/2004	16	24	05/15/2004	16
5/1/2004	LGEE	MORHEAD	2	05/25/2004	11	31	05/13/2004	13
5/1/2004	TVA	PINEV	18	05/30/2004	15	152	05/12/2004	18
6/1/2004	EKPC	ARGENT	3	06/16/2004	14	12	06/25/2004	05
6/1/2004	EKPC	ARGN138	27	06/02/2004	15	13	06/30/2004	02
6/1/2004	EKPC	FALCON	2	06/02/2004	18	18	06/22/2004	16
6/1/2004	EKPC	GRAYSON	0	06/01/2004	01	13	06/17/2004	16
6/1/2004	EKPC	LEECTY	0	06/01/2004	01	25	06/11/2004	15
6/1/2004	EKPC	LEON	17	06/17/2004	12	0	06/01/2004	01
6/1/2004	EKPC	LV-TIE	8	06/01/2004	07	0	06/01/2004	01
6/1/2004	EKPC	THELMA	38	06/14/2004	16	13	06/05/2004	09
6/1/2004	LGEE	MORHEAD	5	06/11/2004	19	21	06/09/2004	15
6/1/2004	TVA	PINEV	6	06/13/2004	05	121	06/09/2004	15
7/1/2004	EKPC	ARGENT	3	07/09/2004	17	17	07/10/2004	14
7/1/2004	EKPC	ARGN138	6	07/23/2004	13	21	07/31/2004	24
7/1/2004	EKPC	FALCON	2	07/11/2004	21	19	07/13/2004	15
7/1/2004	EKPC	GRAYSON	0	07/01/2004	01	13	07/06/2004	14
7/1/2004	EKPC	LEECTY	0	07/01/2004	01	0	07/01/2004	01
7/1/2004	EKPC	LEON	21	07/10/2004	18	0	07/01/2004	01
7/1/2004	EKPC	LV-TIE	8	07/01/2004	07	0	07/01/2004	01
7/1/2004	EKPC	THELMA	51	07/10/2004	14	3	07/01/2004	03
7/1/2004	LGEE	MORHEAD	14	07/10/2004	15	12	07/06/2004	21
7/1/2004	TVA	PINEV	0	07/01/2004	01	120	07/19/2004	16
8/1/2004	EKPC	ARGENT	5	08/19/2004	14	14	08/20/2004	03
8/1/2004	EKPC	ARGN138	10	08/19/2004	14	35	08/15/2004	01
8/1/2004	EKPC	FALCON	2	08/28/2004	22	18	08/04/2004	16
8/1/2004	EKPC	GRAYSON	0	08/01/2004	01	13	08/03/2004	15
8/1/2004	EKPC	LEECTY	0	08/01/2004	01	0	08/01/2004	01
8/1/2004	EKPC	LEON	16	08/02/2004	18	4	08/06/2004	10
8/1/2004	EKPC	LV-TIE	6	08/02/2004	07	0	08/01/2004	01
8/1/2004	EKPC	THELMA	49	08/03/2004	17	0	08/01/2004	01
8/1/2004	LGEE	MORHEAD	8	08/04/2004	18	16	08/28/2004	17
8/1/2004	TVA	PINEV	0	08/01/2004	01	112	08/20/2004	17
9/1/2004	EKPC	ARGENT	7	09/24/2004	14	16	09/03/2004	17
9/1/2004	EKPC	ARGN138	28	09/22/2004	16	31	09/05/2004	04
9/1/2004	EKPC	FALCON	0	09/01/2004	01	14	09/23/2004	15
9/1/2004	EKPC	GRAYSON	0	09/01/2004	01	12	09/04/2004	15
9/1/2004	EKPC	LEECTY	0	09/01/2004	01	5	09/28/2004	10
9/1/2004	EKPC	LEON	17	09/28/2004	10	0	09/01/2004	01
9/1/2004	EKPC	LV-TIE	4	09/01/2004	07	0	09/01/2004	01
9/1/2004	EKPC	THELMA	51	09/14/2004	17	6	09/17/2004	03
9/1/2004	LGEE	MORHEAD	4	09/07/2004	09	16	09/08/2004	21
9/1/2004	TVA	PINEV	0	09/01/2004	01	125	09/23/2004	15
10/1/2004	EKPC	ARGENT	0	10/01/2004	01	17	10/09/2004	22
10/1/2004	EKPC	ARGN138	2	10/01/2004	09	30	10/06/2004	14
10/1/2004	EKPC	FALCON	0	10/01/2004	01	15	10/06/2004	08
10/1/2004	EKPC	GRAYSON	0	10/01/2004	01	9	10/17/2004	08
10/1/2004	EKPC	LEECTY	0	10/01/2004	01	0	10/01/2004	01
10/1/2004	EKPC	LEON	10	10/17/2004	09	2	10/05/2004	01
10/1/2004	EKPC	LV-TIE	4	10/01/2004	07	0	10/01/2004	01
10/1/2004	EKPC	THELMA	21	10/30/2004	10	20	10/02/2004	18
10/1/2004	LGEE	MORHEAD	0	10/01/2004	01	24	10/02/2004	15
10/1/2004	TVA	PINEV	0	10/01/2004	01	141	10/06/2004	09
11/1/2004	EKPC	ARGENT	2	11/15/2004	09	16	11/19/2004	04
11/1/2004	EKPC	ARGN138	12	11/06/2004	09	29	11/03/2004	05
11/1/2004	EKPC	FALCON	0	11/01/2004	01	18	11/26/2004	09

11/1/2004 EKPC	GRAYSON	0	11/01/2004 01	11	11/09/2004 09
11/1/2004 EKPC	LEECTY	0	11/01/2004 01	0	11/01/2004 01
11/1/2004 EKPC	LEON	19	11/03/2004 19	0	11/01/2004 01
11/1/2004 EKPC	LV-TIE	4	11/01/2004 08	0	11/01/2004 01
11/1/2004 EKPC	THELMA	54	11/12/2004 20	17	11/21/2004 06
11/1/2004 LGEE	MORHEAD	6	11/16/2004 12	28	11/21/2004 12
11/1/2004 TVA	PINEV	0	11/01/2004 01	139	11/26/2004 09
12/1/2004 EKPC	ARGENT	8	12/13/2004 19	13	12/21/2004 15
12/1/2004 EKPC	ARGN138	33	12/14/2004 08	14	12/23/2004 04
12/1/2004 EKPC	FALCON	0	12/01/2004 01	28	12/20/2004 09
12/1/2004 EKPC	GRAYSON	0	12/01/2004 01	17	12/20/2004 09
12/1/2004 EKPC	LEECTY	0	12/01/2004 01	27	12/20/2004 07
12/1/2004 EKPC	LEON	21	12/02/2004 10	0	12/01/2004 01
12/1/2004 EKPC	LV-TIE	4	12/01/2004 08	0	12/01/2004 01
12/1/2004 EKPC	THELMA	49	12/23/2004 19	37	12/02/2004 12
12/1/2004 LGEE	MORHEAD	0	12/01/2004 01	36	12/20/2004 02
12/1/2004 TVA	PINEV	0	12/01/2004 01	158	12/03/2004 18



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Identify any areas on your utility's system where capacity constraints, bottlenecks, or other transmission problems have been experienced from January 1, 2003 until the present date. Identify all incidents of transmission problems by date and hour, with a brief narrative description of the nature of the problem. Provide the MW transfers for each of your utility's interconnection for these times.

**RESPONSE**

A typical industry indicator of a transmission constraint (or bottleneck) is an occurrence of a NERC Transmission Loading Relief (TLR) procedure at a Level of 3a or higher. A TLR Level 3a (or higher) is an occurrence of a transaction that was not allowed to be scheduled due to conditions or other higher priority transactions on the network. TLRs at Levels 3b or above result in curtailment of non-firm, firm point-to-point schedules and/or interruption of connected load. Occurrence of TLRs for constraints (Level 3a or higher) on the AEP transmission eastern zone are contained in the attached pages.

The attached pages contain all the TLR records that are posted on the NERC web site for constraints on the AEP transmission system eastern zone. None of these constraints were for Kentucky Power facilities and many are remote from Kentucky. The completion of the Wyoming-Jacksons Ferry project is expected to significantly reduce the number of TLR occurrences in the southeastern portion of the AEP eastern transmission zone.

Since each of the TLRs recorded in the attached pages are remote from the Kentucky Power facilities, the Kentucky Power facilities were largely unaffected by these events. The loadings of the Kentucky Power interconnections during these TLR events are bounded by the values of the monthly maximum loadings supplied in response to Item No. 21.

NERC TLR Monthly Summary

The TLR Monthly Summary summarizes each of the logs invoked for a given month. Each contains the following information:

- Log ID - uniquely identifies each incident and is created from the incident date, incident time, Flowgate ID and Reliability Coordinator.
- RelCoor - the Reliability Coordinator who invoked the TLR procedure.
- Date - the date of the incident.
- FGID - flowgate identification number.
- Flowgate - flowgate's name.
- StartTime - date and time that the incident began.
- ReturnToZero - date and time that the TLR ended.
- Duration - the length of time, in hours, the TLR lasted.
- HighestLevel - the highest TLR Level invoked by the Reliability Coordinator.
- HighestPriority - the highest Transmission Service priority that was curtailed.
- MWs - the number of MWs curtailed.

extracted from files contained at <http://www.nerc.com/~filez/Logs/monthlysummaries.htm>

3/21/2005 FES/JHR

LogID	RelCoord	Date	FGID	Flowgate	StartTime	ReturnToZero	Duration	Highest Level	Highest Priority	MWts
20030130	EMSC_2197	1/30/2003	2197	Kyger-Spom345 for Amos 765/345XFMR	1/30/03 15:57	1/31/03 6:27	14.50 3a	14.50 3a	1	0
20030104	EMSC_2403	1/4/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/4/03 22:08	1/5/03 10:17	12.15 3a	12.15 3a	1	0
20030111	EMSC_2403	1/11/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/11/03 22:08	1/13/03 6:48	32.67 3a	32.67 3a	0	0
20030115	EMSC_2403	1/15/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/15/03 22:07	1/16/03 6:54	8.78 3a	8.78 3a	1	0
20030116	EMSC_2403	1/16/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/16/03 22:08	1/17/03 6:19	8.18 3a	8.18 3a	1	0
20030117	EMSC_2403	1/17/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/17/03 22:05	1/18/03 16:40	18.58 3b	18.58 3b	2	0
20030118	EMSC_2403	1/18/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/18/03 20:06	1/19/03 14:19	18.22 3a	18.22 3a	2	0
20030122	EMSC_2403	1/22/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/22/03 23:27	1/23/03 6:06	6.65 3a	6.65 3a	0	0
20030123	EMSC_2403	1/23/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/23/03 15:15	1/24/03 16:43	25.47 3a	25.47 3a	6	0
20030124	EMSC_2403	1/24/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/24/03 20:12	1/25/03 16:50	20.63 3b	20.63 3b	6	0
20030125	EMSC_2403	1/25/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/25/03 18:37	1/26/03 11:24	16.78 3a	16.78 3a	3	0
20030127	EMSC_2403	1/27/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/27/03 22:10	1/28/03 6:19	8.15 3a	8.15 3a	0	0
20030105	EMSC_2406	1/5/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/5/03 14:10	1/5/03 16:09	1.98 3a	1.98 3a	0	0
20030108	EMSC_2406	1/8/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/8/03 23:11	1/9/03 4:26	5.25 3a	5.25 3a	2	0
20030110	EMSC_2406	1/10/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/10/03 0:33	1/10/03 4:16	3.72 3a	3.72 3a	1	0
20030105	EMSC_2407	1/5/2003	2407	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500-230	1/5/03 3:13	1/5/03 6:23	3.17 3b	3.17 3b	2	0
20030227	PJM_2406	2/27/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/27/03 23:24	2/28/03 4:18	4.90 3a	4.90 3a	2	0
20030226	PJM_2406	2/26/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/26/03 22:39	2/27/03 4:26	5.78 3a	5.78 3a	2	0
20030223	PJM_2406	2/23/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/23/03 22:49	2/24/03 4:22	5.55 3b	5.55 3b	2	0
20030222	PJM_2406	2/22/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/22/03 21:17	2/23/03 8:08	10.85 3b	10.85 3b	3	0
20030221	PJM_2406	2/21/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/21/03 23:39	2/22/03 7:10	7.52 3a	7.52 3a	1	0
20030219	PJM_2406	2/19/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/19/03 0:08	2/19/03 4:35	4.45 3a	4.45 3a	1	0
20030215	PJM_2406	2/15/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/15/03 23:03	2/16/03 6:04	7.02 3a	7.02 3a	3	0
20030208	PJM_2403	2/8/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	2/8/03 21:16	2/9/03 17:17	20.02 3a	20.02 3a	6	0
20030207	PJM_2403	2/7/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	2/7/03 23:09	2/8/03 7:02	7.88 3a	7.88 3a	2	0
20030301	PJM_2406	3/1/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/1/03 22:48	3/2/03 6:19	7.52 3a	7.52 3a	6	0
20030302	PJM_2407	3/2/2003	2407	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500-230	3/2/03 0:33	3/2/03 6:23	5.83 3a	5.83 3a	6	0
20030304	PJM_2406	3/4/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/4/03 0:39	3/4/03 4:01	3.37 3a	3.37 3a	1	0
20030305	PJM_2406	3/5/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/4/03 21:59	3/5/03 4:52	6.88 3a	6.88 3a	6	0
20030305	PJM_2406	3/5/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/5/03 21:44	3/6/03 5:06	7.37 3a	7.37 3a	6	0
20030305	PJM_2406	3/5/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	3/5/03 21:49	3/6/03 5:08	7.32 3a	7.32 3a	6	0
20030306	PJM_2406	3/6/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/6/03 10:14	3/7/03 4:11	17.95 3a	17.95 3a	3	0
20030307	PJM_2406	3/7/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/7/03 11:44	3/7/03 16:29	4.75 3a	4.75 3a	2	0
20030308	PJM_2406	3/8/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/7/03 17:17	3/8/03 3:48	10.52 3a	10.52 3a	2	0
20030308	PJM_2406	3/8/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/8/03 11:28	3/8/03 17:44	6.27 3a	6.27 3a	0	0
20030308	PJM_1706	3/8/2003	1706	CLOVERDALE-LEXINGTON 500	3/8/03 12:50	3/8/03 12:51	0.02 3a	0.02 3a	0	0
20030308	PJM_2406	3/8/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/8/03 22:39	3/9/03 8:03	9.40 3a	9.40 3a	6	0
20030308	PJM_2406	3/8/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/9/03 21:35	3/10/03 4:38	7.05 3a	7.05 3a	0	0
20030309	PJM_2406	3/9/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/10/03 22:54	3/11/03 5:15	6.35 3a	6.35 3a	6	0
20030311	PJM_2406	3/11/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/11/03 13:30	3/12/03 5:34	16.07 3a	16.07 3a	6	0
20030312	PJM_2406	3/12/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	3/12/03 0:34	3/12/03 3:35	3.02 3a	3.02 3a	6	0
20030312	PJM_2406	3/12/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/12/03 10:38	3/12/03 16:44	6.10 3b	6.10 3b	3	0
20030312	PJM_2406	3/12/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/12/03 20:36	3/13/03 5:26	8.83 3a	8.83 3a	6	0
20030312	PJM_2406	3/12/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	3/12/03 21:39	3/13/03 4:19	6.67 3a	6.67 3a	6	0
20030313	PJM_2406	3/13/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/13/03 20:33	3/14/03 6:07	9.57 5a	9.57 5a	7	0

20030319	2333_PJM_2406	PJM	3/19/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/19/03 23:33	3/20/03 4:18	4.75 3a	6	0
20030325	1025_MISO_2340	MISO	3/25/2003	2340	TwinBranch-Argenta345/Cook-Palisades345	3/25/03 10:25	3/25/03 13:30	3.08 3b	6	0
20030327	2227_PJM_2406	PJM	3/27/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/27/03 22:27	3/28/03 7:28	9.02 3b	6	0
20030402	2234_PJM_2406	PJM	4/29/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/2/03 22:34	4/3/03 5:06	6.53 4	6	0
20030402	2255_PJM_2407	PJM	4/29/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	4/2/03 22:55	4/3/03 5:13	6.30 5a	7	0
20030421	2225_PJM_2406	PJM	4/25/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/21/03 22:25	4/22/03 3:12	4.78 3b	6	0
20030424	0758_PJM_11445	PJM	4/24/2003	11445	Sammis-S.Canton345 I/O Tidd-CantonCentral345	4/23/03 11:27	4/23/03 16:00	4.55 3a	6	0
20030423	1127_PJM_11445	PJM	4/17/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	4/4/03 22:30	4/5/03 5:20	6.83 3a	0	0
20030404	2230_PJM_2407	PJM	4/16/2003	2340	TwinBranch-Argenta345/Cook-Palisades345	4/5/03 12:47	4/6/03 0:13	11.43 3b	1	0
20030405	1247_PJM_2340	PJM	4/16/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/5/03 23:30	4/6/03 6:26	6.93 3a	6	0
20030405	2330_PJM_2406	PJM	4/16/2003	2406	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	4/5/03 21:36	4/6/03 6:27	8.85 5a	7	0
20030405	2136_PJM_2407	PJM	4/11/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	4/7/03 21:05	4/8/03 2:33	5.47 3a	6	0
20030407	2105_PJM_2407	PJM	4/10/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/7/03 21:03	4/8/03 2:32	5.48 3a	6	0
20030407	2103_PJM_2406	PJM	4/8/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	4/1/03 22:37	4/2/03 6:50	8.22 5a	7	0
20030401	2237_PJM_2407	PJM	4/5/2003	2336	BentnHbr-Palisades345/Cook-Palisades345	4/16/03 22:11	4/17/03 5:40	7.48 3a	0	0
20030416	2211_MISO_2336	MISO	4/3/2003	2336	BentnHbr-Palisades345/Cook-Palisades345	4/17/03 21:29	4/18/03 1:26	3.95 3a	0	0
20030417	2129_MISO_2336	MISO	4/2/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/3/03 21:09	4/4/03 4:42	7.55 3a	6	0
20030403	2109_PJM_2406	PJM	4/2/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	4/3/03 22:13	4/4/03 4:40	6.45 3a	6	0
20030408	0229_PJM_2403	PJM	4/1/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	4/8/03 2:29	4/8/03 4:26	1.95 3a	2	0
20030408	1446_PJM_2406	PJM	4/1/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/8/03 14:46	4/8/03 17:44	2.97 3a	0	0
20030408	0138_PJM_2408	PJM	4/1/2003	2408	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/8/03 1:38	4/8/03 2:36	0.97 4	6	0
20030502	2237_PJM_2406	PJM	5/2/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/2/03 22:37	5/3/03 3:51	5.23 3a	0	0
20030508	0937_PJM_2369	PJM	5/8/2003	2369	Tidd-Wylie Ridge 345 kv line I/O Kammer 765/500 kv xfmr	5/8/03 9:37	5/8/03 14:50	5.22 3a	6	0
20030511	2204_PJM_2407	PJM	5/1/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	5/1/03 22:04	5/12/03 3:33	5.48 3b	1	0
20030515	2233_PJM_2407	PJM	5/15/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	5/15/03 22:33	5/16/03 4:36	6.05 3a	0	0
20030516	2123_PJM_2407	PJM	5/16/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	5/16/03 21:23	5/17/03 5:42	8.32 3b	1	0
20030522	2133_PJM_2406	PJM	5/22/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/22/03 21:33	5/23/03 3:41	6.13 3a	1	0
20030609	0651_PJM_2403	PJM	6/9/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	6/9/03 5:51	6/9/03 22:04	16.22 3a	1	0
20030610	0522_PJM_2403	PJM	6/10/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	6/10/03 5:22	6/10/03 21:56	16.57 3a	1	0
20030619	2227_PJM_2406	PJM	6/19/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	6/19/03 22:27	6/20/03 3:37	5.17 3a	1	0
20030625	2217_PJM_2407	PJM	6/25/2003	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	6/25/03 22:17	6/26/03 6:05	7.80 3a	2	0
20030626	2058_PJM_2406	PJM	6/26/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	6/26/03 20:58	6/27/03 5:23	8.42 3a	3	0
20030629	2128_PJM_2406	PJM	6/29/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	6/29/03 21:28	6/30/03 6:21	8.88 3a	3	0
20030630	2130_PJM_2406	PJM	6/30/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	6/30/03 21:30	7/1/03 4:00	6.50 3a	2	0
20030701	2131_PJM_2406	PJM	7/1/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/1/03 21:31	7/1/03 23:32	2.02 3a	6	0
20030702	0027_PJM_2406	PJM	7/2/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/2/03 0:27	7/2/03 6:02	5.58 3a	6	0
20030702	2130_PJM_2406	PJM	7/2/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/2/03 21:30	7/3/03 5:28	7.97 3a	1	0
20030704	2150_PJM_2406	PJM	7/4/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/4/03 21:50	7/5/03 6:18	8.47 3a	6	0
20030705	2222_PJM_2406	PJM	7/5/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/5/03 22:22	7/6/03 6:41	8.32 3a	3	0
20030706	2044_PJM_2406	PJM	7/6/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/6/03 20:44	7/7/03 4:28	7.73 3a	6	0
20030707	2144_PJM_2406	PJM	7/7/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/7/03 21:44	7/8/03 5:42	7.97 3a	6	0
20030712	2208_PJM_2406	PJM	7/12/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/12/03 22:08	7/13/03 4:53	6.75 3a	6	0
20030725	2227_PJM_2406	PJM	7/25/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/25/03 22:27	7/26/03 5:18	6.85 3a	1	0
20030726	2128_PJM_2406	PJM	7/26/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/26/03 21:28	7/27/03 6:33	9.08 3a	6	0
20030727	1915_PJM_2403	PJM	7/27/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	7/27/03 19:15	7/28/03 1:34	6.32 3a	1	0
20030727	2201_PJM_2406	PJM	7/27/2003	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/27/03 22:01	7/28/03 5:48	7.78 3a	6	0

2003

20030728	0717	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	7/28/2003	7/28/03 7:17	7/29/03 4:20	21.05 3a	1	0
20030728	2233	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/28/2003	7/28/03 22:33	7/29/03 4:12	5.65 3a	2	0
20030809	2237	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/9/2003	8/9/03 22:37	8/10/03 4:32	5.92 3a	2	0
20030814	0530	PJM	2408	2408 KANAWZ-M FUNK 345/PRUNTYTN-MT STM500	8/14/2003	8/14/03 5:30	8/14/03 6:52	1.37 3b	6	0
20030814	1452	PJM	2005	2005 05MARYSV 05E LIMA 345-MARYSV SWLIMA 345	8/14/2003	8/14/03 14:52	8/14/03 21:47	6.92 3a	6	0
20030814	1547	PJM	11636	11636 Elima-Fostoria 345 Line	8/14/2003	8/14/03 15:47	8/14/03 21:49	6.92 3b	6	0
20030814	1555	PJM	2416	2416 kv	8/14/2003	8/14/03 15:55	8/14/03 21:50	5.03 3b	6	0
20030815	0959	PJM	2413	2413 S. Canton 765/345 kv Xfmr / Tidd-Canton Central 345 kv	8/15/2003	8/15/03 9:59	8/15/03 16:48	6.82 3a	0	0
20030816	1028	PJM	2239	2239 LEMOYNE-FOSTORIA 345 flo BAY SHORE-FOSTORIA 345	8/16/2003	8/16/03 10:28	8/16/03 15:30	5.03 3a	0	0
20030821	1126	PJM	2413	2413 S. Canton 765/345 kv Xfmr / Tidd-Canton Central 345 kv	8/21/2003	8/21/03 11:26	8/21/03 20:36	9.17 3a	2	0
20030821	1206	MISO	11640	11640 W.Canton-Dale 138 (flo) S.Canton-Star 345	8/21/2003	8/21/03 12:06	8/21/03 20:27	8.35 4	6	0
20030829	2241	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	8/29/2003	8/29/03 22:41	8/31/03 17:22	42.68 3a	6	0
20030901	0731	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	9/1/2003	9/1/03 7:31	9/3/03 18:20	58.82 3a	3	0
20030901	2136	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/1/2003	9/1/03 21:36	9/2/03 6:40	9.07 3a	1	0
20030902	2136	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/2/2003	9/2/03 21:36	9/3/03 5:36	8.00 3a	1	0
20030908	1312	PJM	2239	2239 LEMOYNE-FOSTORIA 345 flo BAY SHORE-FOSTORIA 345	9/8/2003	9/8/03 13:12	9/8/03 21:23	8.18 3a	0	0
20030918	0710	MISO	2239	2239 LEMOYNE-FOSTORIA 345 flo BAY SHORE-FOSTORIA 345	9/16/2003	9/16/03 7:10	9/18/03 9:54	2.73 3b	1	0
20030925	2120	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/25/2003	9/25/03 21:20	9/26/03 4:11	6.85 3a	1	0
20030926	2134	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/26/2003	9/26/03 21:34	9/27/03 6:12	8.63 3b	6	0
20030927	2136	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/27/2003	9/27/03 21:36	9/28/03 6:26	8.83 3a	3	0
20031021	0921	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	10/21/2003	10/21/03 9:21	10/21/03 22:14	12.88 3a	3	0
20031028	2033	MISO	2898	2898 Torrey-Cloverdale 138 (flo) Cloverdale-CantonCentral 138	10/28/2003	10/28/03 20:33	10/28/03 22:22	1.82 3a	0	0
20031031	0832	PJM	2005	2005 05MARYSV 05E LIMA 345-MARYSV SWLIMA 345	10/31/2003	10/31/03 8:32	10/31/03 21:16	12.73 3a	0	0
20031120	2353	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	11/20/2003	11/20/03 23:53	11/21/03 6:19	6.43 3a	1	0
20031124	2234	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	11/24/2003	11/24/03 22:34	11/25/03 5:27	6.88 3a	1	0
20031125	2316	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	11/25/2003	11/25/03 23:16	11/26/03 6:31	7.25 3a	2	0
20031129	0009	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	11/29/2003	11/29/03 0:09	11/29/03 16:27	16.30 3a	1	0
20031129	2152	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	11/29/2003	11/29/03 21:52	11/30/03 17:23	19.52 3a	3	0
20031202	0026	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/2/2003	12/2/03 0:26	12/2/03 7:47	7.35 3a	0	0
20031202	2220	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/2/2003	12/2/03 22:20	12/3/03 5:18	6.97 3a	1	0
20031203	0034	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	12/3/2003	12/3/03 0:34	12/3/03 5:20	4.77 3b	2	0
20031203	2235	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/3/2003	12/3/03 22:35	12/4/03 6:55	8.33 3a	2	0
20031203	2257	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	12/3/2003	12/3/03 22:57	12/4/03 4:16	5.32 3a	2	0
20031204	1232	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/4/2003	12/4/03 12:32	12/4/03 17:20	4.80 3a	0	0
20031204	2137	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/4/2003	12/4/03 21:37	12/5/03 6:25	8.80 3a	2	0
20031204	2206	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	12/4/2003	12/4/03 22:06	12/5/03 4:38	6.53 3a	6	0
20031205	1120	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/5/2003	12/5/03 11:20	12/8/03 16:17	76.95 3a	6	0
20031208	2133	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/8/2003	12/8/03 21:33	12/9/03 9:58	12.42 3a	3	0
20031210	0140	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	12/10/2003	12/10/03 1:40	12/10/03 5:21	3.68 3a	1	0
20031210	2237	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/10/2003	12/10/03 22:37	12/11/03 6:42	8.08 3a	2	0
20031211	2240	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/11/2003	12/11/03 22:40	12/12/03 6:36	7.93 3a	6	0
20031212	2239	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/12/2003	12/12/03 22:39	12/13/03 7:03	8.40 3a	2	0
20031213	2219	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/13/2003	12/13/03 22:19	12/14/03 9:53	11.57 3a	1	0
20031214	2158	PJM	2403	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/14/2003	12/14/03 21:58	12/15/03 5:46	7.80 3a	0	0
20031214	2323	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	12/14/2003	12/14/03 23:23	12/15/03 4:52	5.48 3a	1	0
20031216	0026	PJM	2404	2404 KANAWZ-M FUNK 345/BROADFORD-JFERRY 765	12/16/2003	12/16/03 0:26	12/16/03 6:07	5.68 3a	1	0
20031216	0032	PJM	2406	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	12/16/2003	12/16/03 0:32	12/16/03 4:30	3.97 3a	2	0

2003

20031216_2319	MISO_2336	MISO	12/16/2003	2336	BerthHrbr-Palisades345/Cook-Palisades345	12/16/03 23:19	12/17/03 6:14	6.92 3b	2	0
20031217_2212	PJM_2403	PJM	12/17/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/17/03 22:12	12/18/03 7:36	9.40 3a	6	0
20031218_2211	PJM_2403	PJM	12/18/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/18/03 22:11	12/19/03 6:28	8.28 3a	3	0
20031219_2230	PJM_2403	PJM	12/19/2003	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/19/03 22:30	12/22/03 10:09	59.65 3a	6	0

LogID	RelCoor	Date	FGID	Flowgate	StartTime	ReturnToZero	Duration	Highest Level	Highest Priority	MWts
20040106	2220_PJM_2403	1/6/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/6/04 22:20	1/7/04 8:08	9.80	3a	6	0
20040107	2112_PJM_2403	1/7/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/7/04 21:12	1/8/04 8:35	11.38	3b	6	0
20040107	2206_PJM_2404	1/7/2004	2404	KANAWZ-M FUNK 345/BROADFORD-JFERRY 765	1/7/04 22:06	1/8/04 6:38	8.53	3a	6	0
20040108	2207_PJM_2403	1/8/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/8/04 22:07	1/9/04 6:24	8.28	3a	6	0
20040109	2235_PJM_2403	1/9/2004	2403	KANAWZ-M FUNK 345/BROADFORD 765	1/9/04 22:35	1/12/04 6:22	55.78	4	6	0
20040111	0007_PJM_2404	1/11/2004	2404	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/11/04 0:07	1/11/04 10:39	10.53	3b	6	0
20040119	2212_PJM_2403	1/19/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/19/04 22:12	1/20/04 7:13	9.02	3a	6	0
20040120	0235_PJM_2404	1/20/2004	2404	KANAWZ-M FUNK 345/BROADFORD-JFERRY 765	1/20/04 2:35	1/20/04 7:14	4.65	3a	6	0
20040120	2209_PJM_2403	1/20/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/20/04 22:09	1/21/04 6:53	8.73	4	6	0
20040121	0011_PJM_2404	1/21/2004	2404	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/21/04 0:11	1/21/04 6:32	6.35	3b	6	0
20040121	2141_PJM_2403	1/21/2004	2403	KANAWZ-M FUNK 345/BROADFORD-JFERRY 765	1/21/04 21:41	1/22/04 7:20	9.65	4	6	0
20040122	0136_PJM_2404	1/22/2004	2404	KANAWZ-M FUNK 345/BROADFORD-JFERRY 765	1/22/04 1:36	1/22/04 7:10	5.57	3a	6	0
20040126	2335_PJM_2403	1/26/2004	2403	KANAWZ-M FUNK 345/BROADFORD 765	1/26/04 23:35	1/27/04 6:18	6.72	3a	0	0
20040127	2329_PJM_2403	1/27/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/27/04 23:29	1/28/04 5:52	6.38	3a	0	0
20040129	1414_PJM_2406	1/29/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/29/04 14:14	1/29/04 18:26	4.20	3b	2	0
20040207	2232_PJM_2403	2/7/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	2/7/04 22:32	2/8/04 9:10	10.63	3a	1	0
20040227	2231_PJM_2403	2/27/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	2/27/04 22:31	2/28/04 6:24	7.88	3a	1	0
20040317	0923_PJM_2406	3/17/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	3/17/04 9:23	3/17/04 13:37	4.23	3a	2	0
20040427	0844_PJM_2406	4/27/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	4/27/04 8:44	4/27/04 10:36	1.87	3a	1	0
20040503	2242_PJM_1706	5/3/2004	1706	CLOVERDALE-LEXINGTON 500	4/27/04 22:52	4/28/04 4:02	5.17	3b	6	0
20040504	2133_PJM_1706	5/4/2004	1706	CLOVERDALE-LEXINGTON 500	5/4/04 21:33	5/4/04 5:38	6.73	3a	6	0
20040505	2240_PJM_1706	5/5/2004	1706	CLOVERDALE-LEXINGTON 500	5/4/04 22:40	5/5/04 5:38	8.08	3a	6	0
20040506	2239_PJM_1706	5/6/2004	1706	CLOVERDALE-LEXINGTON 500	5/6/04 22:40	5/6/04 4:46	6.10	3a	1	0
20040507	0841_PJM_2403	5/7/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	5/7/04 6:41	5/7/04 14:07	15.37	3a	2	0
20040517	2204_PJM_2406	5/17/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/17/04 22:04	5/18/04 3:50	5.77	3a	1	0
20040518	2149_PJM_2406	5/18/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/18/04 21:49	5/19/04 2:27	4.63	3a	6	0
20040523	0023_PJM_2407	5/23/2004	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	5/23/04 0:23	5/23/04 5:20	4.95	3a	1	0
20040523	2244_PJM_2406	5/23/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/23/04 22:44	5/24/04 7:00	8.27	3a	1	0
20040524	2257_PJM_2406	5/24/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/24/04 22:57	5/25/04 8:12	9.25	3a	6	0
20040525	2139_PJM_2406	5/25/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/25/04 21:39	5/26/04 5:08	7.48	3a	6	0
20040526	2136_PJM_2406	5/26/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/26/04 21:36	5/27/04 4:26	6.83	3a	6	0
20040527	2036_PJM_2406	5/27/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/27/04 20:36	5/28/04 6:25	9.82	3a	6	0
20040529	0930_PJM_2403	5/29/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	5/29/04 9:30	5/29/04 22:51	13.35	3a	1	0
20040531	2234_PJM_2406	5/31/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	5/31/04 22:34	5/31/04 23:26	0.87	3a	0	0
20040609	2232_PJM_2406	6/9/2004	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	6/9/04 22:32	6/10/04 5:08	6.60	3a	6	0
20040615	2135_PJM_2403	6/15/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	6/15/04 21:35	6/16/04 14:14	16.65	3a	0	0
20040615	2316_PJM_2407	6/15/2004	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	6/15/04 23:16	6/16/04 6:29	7.22	3b	6	0
20040616	2158_PJM_2403	6/16/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	6/16/04 21:58	6/17/04 10:03	12.08	3a	6	0
20040616	2342_PJM_2407	6/16/2004	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	6/16/04 23:42	6/17/04 4:42	5.00	3a	1	0
20040617	2058_PJM_2404	6/17/2004	2404	KANAWZ-M FUNK 345/BROADFORD-JFERRY 765	6/17/04 20:58	6/18/04 4:44	7.77	3a	2	0
20040617	2240_PJM_2407	6/17/2004	2407	CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	6/17/04 22:40	6/18/04 4:32	5.87	3a	2	0
20040619	0934_PJM_2403	6/19/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	6/19/04 9:34	6/20/04 12:29	26.92	3a	6	0
20040622	0751_PJM_2403	6/22/2004	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	6/22/04 7:51	6/24/04 0:57	41.10	3a	6	0

2004

20040629_1037_PJM_12262	PJM	6/29/2004	12262 Kanawha-Matt Funk flo Pruntytown-MISform and Baker-Broadford oos	6/29/04 10:37	6/29/04 16:17	5.67	3a	6	0
20040701_2354_PJM_2406	PJM	7/1/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/1/04 23:54	7/2/04 4:19	4.42	3a	2	0
20040703_2126_PJM_2406	PJM	7/3/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/3/04 21:26	7/4/04 6:38	9.20	3a	6	0
20040705_2157_PJM_2406	PJM	7/5/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/5/04 21:57	7/6/04 6:06	8.15	3a	2	0
20040706_2031_PJM_2403	PJM	7/6/2004	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	7/6/04 20:31	7/10/04 3:10	78.65	3a	2	0
20040706_2157_PJM_2406	PJM	7/6/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/6/04 21:57	7/7/04 5:08	7.18	3b	2	0
20040712_2235_PJM_2407	PJM	7/12/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	7/12/04 22:35	7/13/04 4:33	5.97	3a	2	0
20040713_2309_PJM_2403	PJM	7/13/2004	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	7/13/04 23:09	7/15/04 11:43	36.57	3a	2	0
20040714_2210_PJM_2407	PJM	7/14/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	7/14/04 22:10	7/15/04 4:23	6.22	3a	2	0
20040715_2334_PJM_2407	PJM	7/15/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	7/15/04 23:34	7/16/04 4:21	4.78	3a	0	0
20040719_0009_PJM_2406	PJM	7/19/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/19/04 0:09	7/19/04 4:33	4.40	3b	1	0
20040719_2155_PJM_2406	PJM	7/19/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/19/04 21:55	7/20/04 5:56	8.02	3a	2	0
20040720_2235_PJM_2406	PJM	7/20/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/20/04 22:35	7/21/04 7:40	9.08	3a	6	0
20040721_2244_PJM_2406	PJM	7/21/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/21/04 22:44	7/22/04 5:28	6.73	3a	6	0
20040722_2142_PJM_2406	PJM	7/22/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/22/04 21:42	7/23/04 5:06	7.40	3a	6	0
20040724_2300_PJM_2407	PJM	7/24/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	7/24/04 23:00	7/25/04 6:11	7.18	3a	2	0
20040724_2338_PJM_2407	PJM	7/24/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	7/24/04 23:38	7/25/04 6:11	6.55	3a	6	0
20040725_2213_PJM_2407	PJM	7/25/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	7/25/04 22:13	7/26/04 4:32	6.32	3a	6	0
20040726_2103_PJM_2406	PJM	7/26/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/26/04 21:03	7/27/04 6:15	9.20	3b	6	0
20040727_2159_PJM_2406	PJM	7/27/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/27/04 21:59	7/28/04 5:38	7.65	3a	6	0
20040728_2019_PJM_2406	PJM	7/28/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/28/04 20:19	7/29/04 4:33	8.23	3a	6	0
20040729_1956_PJM_2406	PJM	7/29/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/29/04 19:56	7/30/04 5:14	9.30	3a	6	0
20040730_2053_PJM_2406	PJM	7/30/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/30/04 20:53	7/31/04 6:32	9.65	3a	6	0
20040731_2110_PJM_2406	PJM	7/31/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	7/31/04 21:10	8/1/04 7:44	10.57	3a	6	0
20040801_2115_PJM_2403	PJM	8/1/2004	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	8/1/04 21:15	8/1/04 2:14	4.98	3a	6	0
20040801_2302_PJM_2406	PJM	8/1/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/1/04 23:02	8/1/04 23:22	0.33	3b	1	0
20040802_0028_PJM_2406	PJM	8/2/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/2/04 0:28	8/2/04 7:14	6.77	3a	6	0
20040804_1308_PJM_2403	PJM	8/4/2004	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	8/4/04 13:08	8/4/04 19:48	6.67	3a	1	0
20040816_2213_PJM_2406	PJM	8/16/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/16/04 22:13	8/17/04 5:14	7.02	3a	2	0
20040817_2225_PJM_2406	PJM	8/17/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/17/04 22:25	8/18/04 5:14	6.82	3a	2	0
20040818_2155_PJM_2406	PJM	8/18/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/18/04 21:55	8/19/04 5:07	7.20	3a	2	0
20040819_2314_PJM_2406	PJM	8/19/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/19/04 23:14	8/20/04 4:43	5.48	3a	2	0
20040821_2233_PJM_2406	PJM	8/21/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/21/04 22:33	8/22/04 3:56	5.38	3a	0	0
20040825_2130_PJM_2408	PJM	8/25/2004	2408 KANAWZ-M FUNK 345/PRUNTYTN-MT STM500	8/25/04 21:30	8/26/04 12:58	15.47	3a	2	0
20040826_2126_PJM_2408	PJM	8/26/2004	2408 KANAWZ-M FUNK 345/PRUNTYTN-MT STM500	8/26/04 21:26	8/27/04 6:29	9.05	3a	2	0
20040827_2353_PJM_2407	PJM	8/27/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	8/27/04 23:53	8/28/04 7:24	7.52	3a	1	0
20040828_2248_PJM_2406	PJM	8/28/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/28/04 22:48	8/29/04 8:17	9.48	3a	2	0
20040829_2141_PJM_2406	PJM	8/29/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/29/04 21:41	8/30/04 4:42	7.02	3b	2	0
20040830_2055_PJM_2406	PJM	8/30/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/30/04 20:55	8/31/04 5:11	8.27	3b	6	0
20040831_2016_PJM_2406	PJM	8/31/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	8/31/04 20:16	8/31/04 23:29	3.22	3a	6	0
20040901_0027_PJM_2406	PJM	9/1/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/1/04 0:27	9/1/04 4:32	4.08	3a	2	0
20040901_2026_PJM_2406	PJM	9/1/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/1/04 20:26	9/2/04 2:30	6.07	3a	6	0
20040903_2235_PJM_2406	PJM	9/3/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/3/04 22:35	9/4/04 5:35	7.00	3a	2	0
20040904_2229_PJM_2406	PJM	9/4/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/4/04 22:29	9/5/04 6:13	7.73	3a	0	0
20040907_0043_PJM_2340	PJM	9/7/2004	2340 TwinBranch-Argenta345/Cook-Palisades345	9/7/04 0:43	9/7/04 4:47	4.07	3a	1	0
20040908_2159_PJM_2406	PJM	9/8/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/8/04 21:59	9/9/04 5:15	7.27	3a	1	0
20040915_0342_PJM_2406	PJM	9/15/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/15/04 3:42	9/15/04 5:08	1.43	3a	1	0

20040923_2322_MISO_2336	MISO	9/23/2004	2336 BeninHbr-Palisades345/Cook-Palisades345	9/23/04 23:22	9/24/04 5:29	6.12	3a	1	0
20040925_0623_PJM_2403	PJM	9/25/2004	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	9/25/04 6:23	9/26/04 0:23	18.00	3a	2	0
20040926_0721_PJM_2403	PJM	9/26/2004	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	9/26/04 7:21	9/26/04 18:13	10.87	3a	0	0
20040927_2241_PJM_2406	PJM	9/27/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/27/04 22:41	9/28/04 5:31	6.83	3a	0	0
20040928_2240_PJM_2406	PJM	9/28/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	9/28/04 22:40	9/29/04 3:35	4.92	3a	2	0
20041109_1417_MISO_2873	MISO	11/9/2004	2873 Fostoria-Lemoyne 345 flo Davis Besse-Lemoyne 345	11/9/04 14:17	11/9/04 22:17	8.00	3b	2	0
20041110_1201_MISO_2873	MISO	11/10/2004	2873 Fostoria-Lemoyne 345 flo Davis Besse-Lemoyne 345	11/10/04 12:01	11/10/04 19:29	7.47	3b	6	0
20041116_0332_PJM_2403	PJM	11/16/2004	2403 KANAWZ-M FUNK 345/BAKER-BROADFORD 765	11/16/04 3:32	11/16/04 4:34	1.03	3b	2	0
20041117_2312_PJM_2407	PJM	11/17/2004	2407 CLVRDL-LXNGTN500/MTSTM-VLY500&VLY500-230	11/17/04 23:12	11/18/04 3:30	4.30	3a	2	0
20041118_2304_PJM_2406	PJM	11/18/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	11/18/04 23:04	11/19/04 0:26	1.37	3b	4	0
20041121_2157_PJM_2406	PJM	11/21/2004	2406 CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	11/21/04 21:57	11/22/04 1:16	3.32	3b	2	0
20041202_1749_MISO_2873	MISO	12/2/2004	2873 2873_Fostoria-Lemoyne 345 flo Davis Besse-Lemoyne 345	12/2/04 17:49	12/2/04 19:19	1.50	3a	2	0
20041214_2221_PJM_2403	PJM	12/14/2004	2403_2403_KANAWZ-M FUNK 345/BAKER-BROADFORD 765	12/14/04 22:21	12/17/04 7:03	56.70	3b	5	0
20041230_2248_PJM_2406	PJM	12/30/2004	2406 2406_CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	12/30/04 22:48	12/31/04 4:40	5.87	3b	6	0

LogID	RelCoor	Date	FGID	Flowgate	StartTime	ReturnToZero	Duration	Highest Level	Highest Priority	MWs
20050112_2120_PJM_2406	PJM	1/12/2005	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/12/05 21:20	1/13/05 3:36	6.27	3a	2	0
20050118_0231_PJM_2403	PJM	1/18/2005	2403	KANAWZ-M FUNK 345/BAKER-BROADFORD 765	1/18/05 2:31	1/18/05 4:32	2.02	3a	2	0
20050119_0038_PJM_2404	PJM	1/19/2005	2404	KANAWZ-M FUNK 345/BROADFORD-JFERRY 765	1/19/05 0:38	1/19/05 5:34	4.93	3a	2	0
20050121_2346_PJM_2406	PJM	1/21/2005	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/21/05 23:46	1/22/05 8:21	8.58	3b	2	0
20050123_0037_PJM_2408	PJM	1/23/2005	2408	KANAWZ-M FUNK 345/PRUNTYTN-MT STM500	1/23/05 0:37	1/23/05 17:41	17.07	3b	6	0
20050125_1735_MISO_2873	MISO	1/25/2005	2873	Fostoria-Lemoyne 345 flo Davis Besse-Lemoyne 345	1/25/05 17:35	1/25/05 21:36	4.02	3a	6	0
20050125_2326_PJM_2406	PJM	1/25/2005	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/25/05 23:26	1/26/05 4:26	5.00	3b	6	0
20050126_0758_MISO_2873	MISO	1/26/2005	2873	Fostoria-Lemoyne 345 flo Davis Besse-Lemoyne 345	1/26/05 7:58	1/26/05 14:26	6.47	3a	6	0
20050127_2147_PJM_2406	PJM	1/27/2005	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	1/27/05 21:47	1/28/05 7:21	9.57	3a	2	0
20050219_1442_PJM_2406	PJM	2/19/2005	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/19/05 14:42	2/19/05 15:06	0.40	3a	6	0
20050220_0119_PJM_2406	PJM	2/20/2005	2406	CLVRDL-LXNGTN500/PRUNTYTN-MT STM500	2/20/05 1:19	2/20/05 5:46	4.45	3b	6	0



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide details of any planned transmission capacity additions for the 2005 through 2025 period. If the transmission capacity additions are for existing or expected constraints, bottlenecks, or other transmission problems, identify the problem the addition is intended to address.

**RESPONSE**

AEP has identified an area reinforcement plan that requires constructing a new station (Wooten Station) by early 2006 as an interconnection point with Kentucky Utilities. The new Wooten Station and short 161 kV lines will be located near AEP's Hazard - Leslie 161 kV and KU's Arnold - Delvinta 161 kV line crossing. This new station will enhance the reliability of service to AEP's native customer load in and around Hazard, Kentucky. AEP has also identified an area reinforcement plan that utilizes existing 138 kV and 69 kV transmission line facilities to establish new 138/69 kV transformer capacity at the Coalton Station that will enhance the reliability of service to its native customer load in and around Ashland, Kentucky.

In addition to the above, the Wyoming-Jacksons Ferry 765 kV line, scheduled for completion by June 2006, will have collateral benefits to the Kentucky customers. The Wyoming- Jacksons Ferry 765 kV circuit will address reliability concerns related to outages of EHV facilities that are currently in operation and will operate in parallel with the new circuit.

The planning horizon for 138 kV and lower voltage transmission facilities is about two years. The planning horizon for transmission facilities greater than 138 kV is approximately five years due to the longer approval, engineering, design and construction typically associated with these higher voltage transmission projects. Additional transmission reinforcement plans will be developed as required for the period from about 2008 through 2025.

If Independent Power Producer (IPP) facilities are to locate in Kentucky, it may be necessary to expand the transmission system to integrate these new transmission customers into the network. At this time there are two merchant generators connected to the AEP Transmission System in Kentucky. These facilities, totaling 835 MW, are both located adjacent to Kentucky Power Company's Big Sandy Generating Station. Note that there was only one other merchant generator that had executed an Interconnection Agreement with AEP to connect to the AEP Transmission System within Kentucky. However, the Interconnection Agreement with this IPP developer has recently been terminated.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Is your utility researching or considering methods of increasing transmission capacity of existing transmission routes? If yes, discuss those methods.

**RESPONSE**

Yes. When transmission-planning studies indicate the need to increase the capacity of the transmission system in a particular area, AEP routinely examines economic methods to re-employ existing facilities and/or right-of-ways to achieve higher capabilities. At least two methods are routinely considered (individually and/or collectively) to increase existing capacity.

- Reconductor an existing transmission line with a larger capacity conductor, thereby increasing the electrical capacity of that line.
- Reinsulate, to a higher voltage and convert the specific line to operate at a higher voltage, thereby increasing the electrical capacity of that line. Conversion to a higher voltage level would also require significant enhancements to the respective terminal stations.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide copies of any reports prepared by your utility or for your utility that analyzes the capabilities of the transmission system to meet present and future needs for import and export of capacity.

**RESPONSE**

**CONFIDENTIAL PROTECTION OF THE INFORMATION CONTAINED IN THIS RESPONSE IS BEING REQUESTED IN THE FORM OF A MOTION FOR CONFIDENTIAL TREATMENT.**

AEP participated in the study recently prepared for the Kentucky Commission by Commonwealth Associates, Inc. in Adm. Case No. 387. Please refer to the final report issued on January 24, 2005 titled *Assessment of Kentucky's Transmission System Vulnerability to Electrical Disturbances*. As part of the planning processes, AEP routinely conducts, or participates in, various transmission system analyses for the AEP East Zone of which Kentucky Power is a part. AEP conducts seasonally a transmission performance analysis for the eastern portion of its system and similar studies for future time periods (nominally 5 years in the future). AEP is required to annually submit the FERC Form 715 in which it also includes an assessment of the AEP transmission system. In addition, AEP participates in ECAR Assessments, MAIN/ECAR/TVA (MET), VCAR/ECAR/MAAC (VEM), and VACAR/AEP/Southern/TVA (VAST) inter-regional studies.

As such, the following documents are submitted (**Note: All of the following reports are considered Critical Energy Infrastructure Information (CEII). Therefore, these reports are submitted as CEII and must be considered confidential consistent with the requirements of CEII.**)

The reports are voluminous and two copies of each is being provided on the attached CD:

2005 AEP FERC Form No. 715  
2004/5 Winter AEP Bulk System Performance Appraisal  
2004 Summer AEP Bulk System Performance Appraisal  
2004 Summer ECAR Transmission System Performance Report  
2004 Summer VEM Interregional Transmission System Reliability Assessment  
2004 MAIN Summer Transmission Assessment Study  
VAST 2004 Summer Reliability Study of Projected Operating Conditions  
2009 Summer AEP Transmission Assessment



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide the following transmission energy data forecast for the years 2005 through 2025.

- a. Total energy received from all interconnection and generation sources connected to your transmission system.
- b. Total energy delivered to all interconnection on your transmission system.
- c. Peak demand for summer and winter seasons on your transmission system.

**RESPONSE**

a & b) Forecasts of total energy received and total energy delivered to Kentucky Power Company's transmission system have not been developed. Therefore, such forecasts are not available.

c) Page 2 provides Kentucky Power Company's forecast of seasonal peak transmission demands.

**Kentucky Power Company**  
**Winter and Summer Peak Transmission Demand (MW)**  
**2005-2024**

<b>Year</b>	<b>Winter Preceding Demand</b>	<b>Summer Demand</b>
2005	1,687	1,364
2006	1,711	1,371
2007	1,737	1,400
2008	1,757	1,415
2009	1,785	1,436
2010	1,806	1,454
2011	1,832	1,474
2012	1,850	1,490
2013	1,881	1,514
2014	1,908	1,535
2015	1,934	1,557
2016	1,951	1,571
2017	1,980	1,594
2018	2,002	1,612
2019	2,026	1,631
2020	2,042	1,645
2021	2,072	1,668
2022	2,097	1,688
2023	2,121	1,707
2024	2,136	1,721



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide the yearly System Average Interruption Duration Index ("SAIDI") and the System Average Interruption Frequency Index ("SAIFI"), excluding major outages, by feeder for each distribution substation on your system for the last 5 years.

**RESPONSE**

Attached is Kentucky Power's reliability data for the years 2000 - 2004. SAIDI and SAIFI by feeder excluding major outages can be found in Attachment B.

Attachment A - Historical Circuit Performance No Exclusions

Attachment B - Historical Circuit Performance Excluding Jurisdiction Level IEEE,  
Major Event Days

Attachment C - Outage Frequency by Cause

### Historical Circuit Performance - No Exclusions

CktID	Station Name	Circuit Name	Year	SAIDI	SAIFI	CAIDI
2150103	SPRIGG	MATEWAN	2000	0.0	0.000	0.0
2150103	SPRIGG	MATEWAN	2001	1,274.1	2.319	549.5
2150103	SPRIGG	MATEWAN	2002	713.4	1.890	377.5
2150103	SPRIGG	MATEWAN	2003	2,847.1	14.669	194.1
2150103	SPRIGG	MATEWAN	2004	17,704.9	35.243	502.4
2150501	BORDERLAND	NOLAN	2000	62.8	0.487	128.9
2150501	BORDERLAND	NOLAN	2001	37.8	0.145	259.9
2150501	BORDERLAND	NOLAN	2002	260.0	2.177	119.4
2150501	BORDERLAND	NOLAN	2003	1,419.7	7.031	201.9
2150501	BORDERLAND	NOLAN	2004	3,660.6	7.026	521.0
2150502	BORDERLAND	CHATTAROY	2000	2.3	0.028	81.4
2150502	BORDERLAND	CHATTAROY	2001	137.1	1.500	91.4
2150502	BORDERLAND	CHATTAROY	2002	1,293.9	1.697	762.4
2150502	BORDERLAND	CHATTAROY	2003	940.0	5.732	164.0
2150502	BORDERLAND	CHATTAROY	2004	4,421.2	14.493	305.1
2206403	SOUTH NEAL	WHITES CREEK RD	2000	0.0	0.000	0.0
2206403	SOUTH NEAL	WHITES CREEK RD	2001	178.1	3.102	57.4
2206403	SOUTH NEAL	WHITES CREEK RD	2002	424.3	3.159	134.3
2206403	SOUTH NEAL	WHITES CREEK RD	2003	1,838.5	2.950	623.2
2206403	SOUTH NEAL	WHITES CREEK RD	2004	3,064.1	4.239	722.8
2970603	HURLEY	RACEFORK	2000	0.0	0.000	0.0
2970603	HURLEY	RACEFORK	2001	0.0	0.000	0.0
2970603	HURLEY	RACEFORK	2002	0.0	0.000	0.0
2970603	HURLEY	RACEFORK	2003	3,169.7	21.333	148.6
2970603	HURLEY	RACEFORK	2004	7,016.0	72.000	97.4
2974101	BIG ROCK	CONAWAY	2000	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2001	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2002	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2003	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2004	0.0	0.000	0.0
3000101	ASHLAND	25-25STRE	2000	220.6	1.622	136.0
3000101	ASHLAND	25-25STRE	2001	160.8	1.529	105.2
3000101	ASHLAND	25-25STRE	2002	48.3	0.345	140.1
3000101	ASHLAND	25-25STRE	2003	30.4	0.218	139.3
3000101	ASHLAND	25-25STRE	2004	7.8	0.188	41.4
3000102	ASHLAND	25-29STRE	2000	57.7	1.551	37.2
3000102	ASHLAND	25-29STRE	2001	150.7	2.031	74.2
3000102	ASHLAND	25-29STRE	2002	188.6	0.429	439.3
3000102	ASHLAND	25-29STRE	2003	444.5	1.284	346.3
3000102	ASHLAND	25-29STRE	2004	121.2	1.047	115.8
3000103	ASHLAND	25-14STRE	2000	86.6	1.096	79.0
3000103	ASHLAND	25-14STRE	2001	22.2	0.339	65.4
3000103	ASHLAND	25-14STRE	2002	98.6	0.109	908.4
3000103	ASHLAND	25-14STRE	2003	282.7	1.039	272.2
3000103	ASHLAND	25-14STRE	2004	276.8	1.047	264.5
3000104	ASHLAND	25-2-3	2000	89.1	1.070	83.2
3000104	ASHLAND	25-2-3	2001	3.0	0.022	136.0
3000104	ASHLAND	25-2-3	2002	12.8	0.041	311.2
3000104	ASHLAND	25-2-3	2003	4.3	0.031	139.7

3000104	ASHLAND	25-2-3	2004	200.1	1.667	120.0
3000105	ASHLAND	25-1	2000	58.5	1.525	38.4
3000105	ASHLAND	25-1	2001	4.4	0.098	45.0
3000105	ASHLAND	25-1	2002	1.8	0.015	115.0
3000105	ASHLAND	25-1	2003	198.1	0.969	204.4
3000105	ASHLAND	25-1	2004	113.6	0.200	568.1
3000201	BIG SANDY	FALLS BURG SOUTH	2000	542.5	2.621	207.0
3000201	BIG SANDY	FALLS BURG SOUTH	2001	412.3	3.438	119.9
3000201	BIG SANDY	FALLS BURG SOUTH	2002	294.2	3.055	96.3
3000201	BIG SANDY	FALLS BURG SOUTH	2003	1,147.8	3.817	300.8
3000201	BIG SANDY	FALLS BURG SOUTH	2004	410.7	1.459	281.4
3000202	BIG SANDY	BURNAUGH NORTH	2001	81.6	1.345	60.7
3000202	BIG SANDY	BURNAUGH NORTH	2002	259.2	2.594	99.9
3000202	BIG SANDY	BURNAUGH NORTH	2003	1,330.4	1.904	698.9
3000202	BIG SANDY	BURNAUGH NORTH	2004	785.9	3.146	249.8
3000301	BELLEFONT	WESTWOOD	2000	135.1	0.745	181.3
3000301	BELLEFONT	WESTWOOD	2001	407.6	4.062	100.4
3000301	BELLEFONT	WESTWOOD	2002	1,012.8	3.261	310.6
3000301	BELLEFONT	WESTWOOD	2003	1,213.1	0.800	1,517.3
3000301	BELLEFONT	WESTWOOD	2004	717.5	0.709	1,012.5
3000302	BELLEFONT	FLATWOODS	2000	21.1	0.716	29.4
3000302	BELLEFONT	FLATWOODS	2001	9.1	0.044	207.0
3000302	BELLEFONT	FLATWOODS	2002	401.1	3.778	106.2
3000302	BELLEFONT	FLATWOODS	2003	1,160.3	0.907	1,278.7
3000302	BELLEFONT	FLATWOODS	2004	272.2	0.657	414.1
3000303	BELLEFONT	BELLEFONT	2000	392.9	1.738	226.0
3000303	BELLEFONT	BELLEFONT	2001	163.2	2.203	74.1
3000303	BELLEFONT	BELLEFONT	2002	824.5	3.319	248.4
3000303	BELLEFONT	BELLEFONT	2003	2,469.8	2.846	867.8
3000303	BELLEFONT	BELLEFONT	2004	227.8	1.820	125.2
3000304	BELLEFONT	ASHLAND TOWN CENTER	2000	9.8	0.556	17.7
3000304	BELLEFONT	ASHLAND TOWN CENTER	2001	7.3	0.105	69.0
3000304	BELLEFONT	ASHLAND TOWN CENTER	2002	400.8	2.063	194.3
3000304	BELLEFONT	ASHLAND TOWN CENTER	2003	52.9	0.188	282.0
3000304	BELLEFONT	ASHLAND TOWN CENTER	2004	18.4	0.188	98.0
3000601	GRAHN	PLEASANTV	2000	1,702.1	2.315	735.4
3000601	GRAHN	PLEASANTV	2001	163.9	0.674	243.3
3000601	GRAHN	PLEASANTV	2002	657.8	2.178	302.0
3000601	GRAHN	PLEASANTV	2003	9,277.9	5.159	1,798.4
3000601	GRAHN	PLEASANTV	2004	1,268.1	6.188	204.9
3000701	GRAYSBRAN	GRAYSBRAN	2000	186.9	0.837	223.2
3000701	GRAYSBRAN	GRAYSBRAN	2001	818.1	3.348	244.3
3000701	GRAYSBRAN	GRAYSBRAN	2002	517.4	2.831	182.8
3000701	GRAYSBRAN	GRAYSBRAN	2003	3,926.2	3.553	1,105.1
3000701	GRAYSBRAN	GRAYSBRAN	2004	659.1	3.387	194.6
3000801	HAYWARD	HALDEMAN	2000	311.7	0.806	386.8
3000801	HAYWARD	HALDEMAN	2001	206.9	1.192	173.5
3000801	HAYWARD	HALDEMAN	2002	338.3	1.177	287.6
3000801	HAYWARD	HALDEMAN	2003	5,785.7	3.284	1,762.0
3000801	HAYWARD	HALDEMAN	2004	669.6	1.797	372.5
3000802	HAYWARD	LAWTON	2000	615.1	0.868	708.4
3000802	HAYWARD	LAWTON	2001	280.3	1.151	243.4

3000802	HAYWARD	LAWTON	2002	562.1	1.747	321.7
3000802	HAYWARD	LAWTON	2003	7,560.4	6.091	1,241.2
3000802	HAYWARD	LAWTON	2004	303.7	1.102	275.7
3000901	HIGHLAND	RUSSELL	2000	301.9	2.829	106.7
3000901	HIGHLAND	RUSSELL	2001	65.8	0.697	94.4
3000901	HIGHLAND	RUSSELL	2002	248.5	0.970	256.1
3000901	HIGHLAND	RUSSELL	2003	32.8	0.089	368.6
3000901	HIGHLAND	RUSSELL	2004	668.8	1.680	398.1
3000902	HIGHLAND	FLATWOODS	2000	252.7	1.946	129.9
3000902	HIGHLAND	FLATWOODS	2001	171.0	0.886	193.0
3000902	HIGHLAND	FLATWOODS	2002	313.6	1.973	159.0
3000902	HIGHLAND	FLATWOODS	2003	897.6	2.085	430.5
3000902	HIGHLAND	FLATWOODS	2004	1,146.3	3.365	340.7
3000903	HIGHLAND	WURTLAND	2000	20.4	0.396	51.5
3000903	HIGHLAND	WURTLAND	2001	246.9	1.912	129.2
3000903	HIGHLAND	WURTLAND	2002	153.3	1.640	93.5
3000903	HIGHLAND	WURTLAND	2003	2,286.4	0.987	2,315.9
3000903	HIGHLAND	WURTLAND	2004	664.6	0.821	809.1
3001001	HITCHINS	DAMRONBRA	2000	24.0	0.091	264.8
3001001	HITCHINS	DAMRONBRA	2001	466.6	1.718	271.6
3001001	HITCHINS	DAMRONBRA	2002	121.3	0.796	152.4
3001001	HITCHINS	DAMRONBRA	2003	1,469.0	1.596	920.1
3001001	HITCHINS	DAMRONBRA	2004	1,080.6	3.478	310.7
3001002	HITCHINS	WILLARD	2000	235.7	0.505	466.3
3001002	HITCHINS	WILLARD	2001	385.8	1.550	248.9
3001002	HITCHINS	WILLARD	2002	647.7	2.020	320.6
3001002	HITCHINS	WILLARD	2003	2,478.8	3.063	809.3
3001002	HITCHINS	WILLARD	2004	737.8	2.397	307.8
3001003	HITCHINS	HITCH-GRA	2000	355.9	2.958	120.3
3001003	HITCHINS	HITCH-GRA	2001	144.7	0.879	164.7
3001003	HITCHINS	HITCH-GRA	2002	185.2	1.541	120.2
3001003	HITCHINS	HITCH-GRA	2003	1,428.7	1.508	947.4
3001003	HITCHINS	HITCH-GRA	2004	94.6	0.769	122.9
3001101	HOODSCREE	SUMMIT	2000	74.2	0.559	132.8
3001101	HOODSCREE	SUMMIT	2001	202.8	0.971	208.8
3001101	HOODSCREE	SUMMIT	2002	171.3	1.320	129.8
3001101	HOODSCREE	SUMMIT	2003	6,343.9	3.151	2,013.0
3001101	HOODSCREE	SUMMIT	2004	368.0	1.611	228.4
3001102	HOODSCREE	RURAL	2000	163.8	0.454	361.0
3001102	HOODSCREE	RURAL	2001	235.3	1.619	145.3
3001102	HOODSCREE	RURAL	2002	95.8	1.319	72.7
3001102	HOODSCREE	RURAL	2003	2,420.5	1.653	1,464.4
3001102	HOODSCREE	RURAL	2004	413.6	3.130	132.1
3001201	HOWARDCOL	13STREET	2000	37.5	0.376	99.6
3001201	HOWARDCOL	13STREET	2001	82.9	0.738	112.3
3001201	HOWARDCOL	13STREET	2002	90.2	1.083	83.3
3001201	HOWARDCOL	13STREET	2003	1,060.7	2.782	381.3
3001201	HOWARDCOL	13STREET	2004	446.5	3.371	132.5
3001202	HOWARDCOL	29STREET	2000	161.8	1.572	102.9
3001202	HOWARDCOL	29STREET	2001	20.8	0.393	53.0
3001202	HOWARDCOL	29STREET	2002	232.9	1.266	184.0
3001202	HOWARDCOL	29STREET	2003	483.3	2.036	237.3

3001202	HOWARDCOL	29STREET	2004	89.7	0.446	201.3
3001203	HOWARDCOL	FLOYD	2000	160.4	2.425	66.1
3001203	HOWARDCOL	FLOYD	2001	101.4	0.959	105.7
3001203	HOWARDCOL	FLOYD	2002	67.3	0.611	110.2
3001203	HOWARDCOL	FLOYD	2003	97.1	1.082	89.7
3001203	HOWARDCOL	FLOYD	2004	498.6	2.748	181.5
3001204	HOWARDCOL	SUMMIT	2000	183.2	1.038	176.5
3001204	HOWARDCOL	SUMMIT	2001	64.7	0.375	172.3
3001204	HOWARDCOL	SUMMIT	2002	162.7	1.361	119.5
3001204	HOWARDCOL	SUMMIT	2003	2,907.9	5.313	547.3
3001204	HOWARDCOL	SUMMIT	2004	209.4	3.132	66.9
3001401	LOUISA	CITY	2000	14.1	0.158	89.3
3001401	LOUISA	CITY	2001	127.9	2.017	63.4
3001401	LOUISA	CITY	2002	133.6	0.539	247.6
3001401	LOUISA	CITY	2003	103.7	1.238	83.7
3001401	LOUISA	CITY	2004	186.9	1.308	142.9
3001402	LOUISA	HIGHBOTTOM	2000	11.0	0.070	157.6
3001402	LOUISA	HIGHBOTTOM	2001	222.1	2.474	89.8
3001402	LOUISA	HIGHBOTTOM	2002	360.5	1.616	223.2
3001402	LOUISA	HIGHBOTTOM	2003	174.6	1.606	108.7
3001402	LOUISA	HIGHBOTTOM	2004	66.5	0.562	118.2
3002001	S.SHORE	SILOAM	2000	194.8	0.895	217.7
3002001	S.SHORE	SILOAM	2001	191.8	1.239	154.8
3002001	S.SHORE	SILOAM	2002	149.3	0.254	587.0
3002001	S.SHORE	SILOAM	2003	2,853.3	2.821	1,011.5
3002001	S.SHORE	SILOAM	2004	175.6	1.421	123.5
3002002	S.SHORE	DISTRIBUTION	2000	180.8	0.259	698.7
3002002	S.SHORE	DISTRIBUTION	2001	297.9	1.342	221.9
3002002	S.SHORE	DISTRIBUTION	2002	76.6	0.326	234.6
3002002	S.SHORE	DISTRIBUTION	2003	408.5	0.543	752.7
3002002	S.SHORE	DISTRIBUTION	2004	43.0	0.398	107.9
3002101	10STREET	6STREET	2000	25.7	0.137	187.1
3002101	10STREET	6STREET	2001	24.8	0.205	120.8
3002101	10STREET	6STREET	2002	81.4	1.530	53.2
3002101	10STREET	6STREET	2003	310.6	3.541	87.7
3002101	10STREET	6STREET	2004	55.3	0.884	62.6
3002102	10STREET	10-2	2000	5.2	0.114	45.7
3002102	10STREET	10-2	2001	2.8	0.079	36.0
3002102	10STREET	10-2	2002	0.0	0.000	0.0
3002102	10STREET	10-2	2003	183.9	0.958	192.0
3002102	10STREET	10-2	2004	4.4	0.017	258.5
3002103	10STREET	12STREET	2000	106.1	0.487	217.7
3002103	10STREET	12STREET	2001	280.5	1.678	167.2
3002103	10STREET	12STREET	2002	90.9	1.353	67.2
3002103	10STREET	12STREET	2003	68.3	0.527	129.5
3002103	10STREET	12STREET	2004	101.2	0.596	169.9
3002104	10STREET	10-3	2000	33.5	0.320	104.9
3002104	10STREET	10-3	2001	13.0	0.161	81.0
3002104	10STREET	10-3	2002	22.6	0.921	24.6
3002104	10STREET	10-3	2003	460.4	2.339	196.9
3002104	10STREET	10-3	2004	125.9	1.097	114.8
3003701	COALTON	U.S.60W	2000	918.2	3.128	293.6

3003701	COALTON	U.S.60W	2001	85.8	0.333	257.4
3003701	COALTON	U.S.60W	2002	123.0	1.266	97.1
3003701	COALTON	U.S.60W	2003	2,157.0	3.826	563.7
3003701	COALTON	U.S.60W	2004	311.9	1.366	228.3
3003702	COALTON	CANNONSBU	2000	459.6	2.004	229.4
3003702	COALTON	CANNONSBU	2001	101.3	1.450	69.9
3003702	COALTON	CANNONSBU	2002	43.4	0.226	191.8
3003702	COALTON	CANNONSBU	2003	536.9	1.979	271.3
3003702	COALTON	CANNONSBU	2004	242.9	2.112	115.0
3003703	COALTON	TRACECREE	2000	1,013.1	3.415	296.7
3003703	COALTON	TRACECREE	2001	265.1	1.947	136.1
3003703	COALTON	TRACECREE	2002	341.4	1.880	181.6
3003703	COALTON	TRACECREE	2003	623.6	1.809	344.6
3003703	COALTON	TRACECREE	2004	440.3	1.709	257.6
3004301	SILOAM	DISTRIBUTION	2000	219.9	1.637	134.4
3004301	SILOAM	DISTRIBUTION	2001	34.6	0.234	148.0
3004301	SILOAM	DISTRIBUTION	2002	64.4	0.623	103.4
3004301	SILOAM	DISTRIBUTION	2003	1,522.2	1.259	1,208.7
3004301	SILOAM	DISTRIBUTION	2004	321.8	2.358	136.5
3007903	BUSSEYVILLE	LOUISA	2000	1,075.2	3.315	324.4
3007903	BUSSEYVILLE	LOUISA	2001	779.6	4.610	169.1
3007903	BUSSEYVILLE	LOUISA	2002	563.4	1.421	396.4
3007903	BUSSEYVILLE	LOUISA	2003	1,046.0	2.760	379.0
3007903	BUSSEYVILLE	LOUISA	2004	961.9	2.558	376.0
3007904	BUSSEYVILLE	TORCHLITE	2000	1,418.9	2.863	495.6
3007904	BUSSEYVILLE	TORCHLITE	2001	860.2	3.263	263.7
3007904	BUSSEYVILLE	TORCHLITE	2002	1,175.0	4.527	259.6
3007904	BUSSEYVILLE	TORCHLITE	2003	950.8	3.504	271.4
3007904	BUSSEYVILLE	TORCHLITE	2004	645.3	2.946	219.0
3008001	47TH STREET	49TH STREET	2000	178.8	1.651	108.3
3008001	47TH STREET	49TH STREET	2001	97.5	0.691	141.1
3008001	47TH STREET	49TH STREET	2002	252.1	1.492	169.0
3008001	47TH STREET	49TH STREET	2003	559.0	2.661	210.1
3008001	47TH STREET	49TH STREET	2004	673.5	2.092	321.9
3008002	47TH STREET	39TH STREET	2000	218.5	1.926	113.4
3008002	47TH STREET	39TH STREET	2001	163.0	2.108	77.3
3008002	47TH STREET	39TH STREET	2002	55.3	0.843	65.6
3008002	47TH STREET	39TH STREET	2003	45.7	0.166	276.1
3008002	47TH STREET	39TH STREET	2004	943.9	6.418	147.1
3008003	47TH STREET	CATLETTSB	2000	130.5	1.272	102.6
3008003	47TH STREET	CATLETTSB	2001	222.6	4.451	50.0
3008003	47TH STREET	CATLETTSB	2002	113.7	0.542	209.9
3008003	47TH STREET	CATLETTSB	2003	143.3	1.292	110.9
3008003	47TH STREET	CATLETTSB	2004	93.1	0.313	297.4
3008701	CANNONSBU	CANNONSBU	2000	233.2	0.666	349.9
3008701	CANNONSBU	CANNONSBU	2001	102.8	0.687	149.8
3008701	CANNONSBU	CANNONSBU	2002	186.9	1.329	140.6
3008701	CANNONSBU	CANNONSBU	2003	578.4	2.168	266.8
3008701	CANNONSBU	CANNONSBU	2004	482.2	2.746	175.6
3008702	CANNONSBU	ROUTE3	2000	204.3	0.654	312.5
3008702	CANNONSBU	ROUTE3	2001	382.9	2.008	190.7
3008702	CANNONSBU	ROUTE3	2002	581.5	3.990	145.8

3008702	CANNONSBU	ROUTE3	2003	4,203.9	4.571	919.7
3008702	CANNONSBU	ROUTE3	2004	837.1	2.727	307.0
3010601	RUSSELL	KENWOOD	2000	239.1	2.663	89.8
3010601	RUSSELL	KENWOOD	2001	244.0	0.894	272.9
3010601	RUSSELL	KENWOOD	2002	24.4	0.220	111.1
3010601	RUSSELL	KENWOOD	2003	1,740.4	2.494	697.9
3010601	RUSSELL	KENWOOD	2004	194.5	1.648	118.0
3010602	RUSSELL	BEARRUN	2000	169.9	1.369	124.1
3010602	RUSSELL	BEARRUN	2001	20.4	0.195	104.7
3010602	RUSSELL	BEARRUN	2002	48.6	0.348	139.6
3010602	RUSSELL	BEARRUN	2003	1,067.9	1.306	817.7
3010602	RUSSELL	BEARRUN	2004	177.3	2.091	84.8
3010603	RUSSELL	ASHLANDOI	2000	33.5	0.375	89.3
3010603	RUSSELL	ASHLANDOI	2001	0.0	0.000	0.0
3010603	RUSSELL	ASHLANDOI	2002	0.0	0.000	0.0
3010603	RUSSELL	ASHLANDOI	2003	0.0	0.000	0.0
3010603	RUSSELL	ASHLANDOI	2004	272.7	3.000	90.9
3103101	OLIVEHILL	GLOBE	2000	563.2	2.192	256.9
3103101	OLIVEHILL	GLOBE	2001	85.7	0.433	197.8
3103101	OLIVEHILL	GLOBE	2002	295.8	0.976	303.2
3103101	OLIVEHILL	GLOBE	2003	13,374.0	8.025	1,666.4
3103101	OLIVEHILL	GLOBE	2004	751.1	3.375	222.5
3103102	OLIVEHILL	CITY	2000	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2001	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2002	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2003	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2004	0.0	0.000	0.0
3109201	MANSBACH	SHREDDER	2003	0.0	0.000	0.0
3109201	MANSBACH	SHREDDER	2004	0.0	0.000	0.0
3110901	WURTLAND	WURTLAND	2000	89.4	0.438	204.3
3110901	WURTLAND	WURTLAND	2001	46.1	0.320	144.1
3110901	WURTLAND	WURTLAND	2002	160.8	1.710	94.1
3110901	WURTLAND	WURTLAND	2003	20.0	0.290	69.0
3110901	WURTLAND	WURTLAND	2004	6.6	0.065	102.5
3110902	WURTLAND	GREENUP	2000	89.8	0.335	268.0
3110902	WURTLAND	GREENUP	2001	283.9	1.476	192.3
3110902	WURTLAND	GREENUP	2002	633.7	2.812	225.4
3110902	WURTLAND	GREENUP	2003	3,759.8	4.292	875.9
3110902	WURTLAND	GREENUP	2004	1,043.7	3.424	304.8
3110903	WURTLAND	RT.503	2000	108.1	0.621	174.2
3110903	WURTLAND	RT.503	2001	70.5	0.461	152.8
3110903	WURTLAND	RT.503	2002	348.5	1.662	209.7
3110903	WURTLAND	RT.503	2003	2,369.4	2.005	1,181.6
3110903	WURTLAND	RT.503	2004	620.3	2.236	277.4
3116101	GRAYSON	LANSDOWNE	2000	343.7	3.085	111.4
3116101	GRAYSON	LANSDOWNE	2001	357.7	2.518	142.1
3116101	GRAYSON	LANSDOWNE	2002	53.3	0.427	124.8
3116101	GRAYSON	LANSDOWNE	2003	1,288.2	4.595	280.4
3116101	GRAYSON	LANSDOWNE	2004	468.0	1.617	289.3
3116102	GRAYSON	DIXIEPARK	2000	130.8	0.800	163.5
3116102	GRAYSON	DIXIEPARK	2001	242.7	2.385	101.7
3116102	GRAYSON	DIXIEPARK	2002	159.5	0.875	182.3

3116102	GRAYSON	DIXIEPARK	2003	657.4	1.829	359.4
3116102	GRAYSON	DIXIEPARK	2004	277.6	1.421	195.3
3116701	BELHAVEN	THOMPSON ROAD	2000	168.5	0.560	300.6
3116701	BELHAVEN	THOMPSON ROAD	2001	130.6	1.595	81.9
3116701	BELHAVEN	THOMPSON ROAD	2002	476.4	1.916	248.6
3116701	BELHAVEN	THOMPSON ROAD	2003	312.0	0.803	388.8
3116701	BELHAVEN	THOMPSON ROAD	2004	760.1	2.253	337.4
3116702	BELHAVEN	INDIAN RUN	2000	45.0	0.251	179.5
3116702	BELHAVEN	INDIAN RUN	2001	72.0	0.767	93.9
3116702	BELHAVEN	INDIAN RUN	2002	248.8	1.369	181.7
3116702	BELHAVEN	INDIAN RUN	2003	1,969.8	1.711	1,151.1
3116702	BELHAVEN	INDIAN RUN	2004	52.6	0.380	138.4
3116703	BELHAVEN	ARGILLITE ROAD	2000	142.2	0.454	313.4
3116703	BELHAVEN	ARGILLITE ROAD	2001	79.9	0.657	121.5
3116703	BELHAVEN	ARGILLITE ROAD	2002	146.1	1.549	94.3
3116703	BELHAVEN	ARGILLITE ROAD	2003	847.0	0.653	1,297.7
3116703	BELHAVEN	ARGILLITE ROAD	2004	315.0	0.745	423.1
3117601	PRINCESS	MEADE STATION	2000	996.7	1.737	573.7
3117601	PRINCESS	MEADE STATION	2001	142.2	1.456	97.7
3117601	PRINCESS	MEADE STATION	2002	150.4	0.743	202.4
3117601	PRINCESS	MEADE STATION	2003	553.5	0.709	780.7
3117601	PRINCESS	MEADE STATION	2004	220.9	1.208	182.8
3117602	PRINCESS	ROUTE 180	2000	22.8	0.078	292.7
3117602	PRINCESS	ROUTE 180	2001	122.0	0.570	214.0
3117602	PRINCESS	ROUTE 180	2002	294.7	0.981	300.4
3117602	PRINCESS	ROUTE 180	2003	475.3	0.147	3,229.4
3117602	PRINCESS	ROUTE 180	2004	140.0	0.845	165.6
3200201	BARRENSHE	FREEBURN	2000	231.5	1.876	123.4
3200201	BARRENSHE	FREEBURN	2001	2,014.0	3.046	661.3
3200201	BARRENSHE	FREEBURN	2002	523.9	1.734	302.2
3200201	BARRENSHE	FREEBURN	2003	1,434.0	2.225	644.5
3200201	BARRENSHE	FREEBURN	2004	2,850.0	3.335	854.5
3200202	BARRENSHE	VULCAN	2000	381.7	2.576	148.2
3200202	BARRENSHE	VULCAN	2001	1,566.0	2.213	707.8
3200202	BARRENSHE	VULCAN	2002	1,489.2	2.682	555.3
3200202	BARRENSHE	VULCAN	2003	1,675.5	5.080	329.8
3200202	BARRENSHE	VULCAN	2004	7,415.2	4.787	1,549.1
3200203	BARRENSHE	SLATE BRANCH	2000	409.0	4.000	102.3
3200203	BARRENSHE	SLATE BRANCH	2001	51.7	0.227	228.0
3200203	BARRENSHE	SLATE BRANCH	2002	13,727.0	54.000	254.2
3200203	BARRENSHE	SLATE BRANCH	2003	0.0	0.000	0.0
3200203	BARRENSHE	SLATE BRANCH	2004	0.0	0.000	0.0
3200204	BARRENSHE	POUNDING	2000	139.9	1.260	111.1
3200204	BARRENSHE	POUNDING	2001	117.2	0.383	305.8
3200204	BARRENSHE	POUNDING	2002	1,080.9	2.990	361.5
3200204	BARRENSHE	POUNDING	2003	370.2	2.965	124.9
3200204	BARRENSHE	POUNDING	2004	2,972.7	4.346	684.0
3200301	BELFRY	BELFRY	2000	176.2	1.736	101.5
3200301	BELFRY	BELFRY	2001	505.7	3.196	158.2
3200301	BELFRY	BELFRY	2002	165.0	1.187	139.0
3200301	BELFRY	BELFRY	2003	3.2	0.028	112.8
3200301	BELFRY	BELFRY	2004	1,834.1	2.248	815.7

3200302	BELFRY	TOLER	2000	42.3	0.957	44.2
3200302	BELFRY	TOLER	2001	188.6	2.463	76.6
3200302	BELFRY	TOLER	2002	305.4	2.892	105.6
3200302	BELFRY	TOLER	2003	155.1	1.467	105.7
3200302	BELFRY	TOLER	2004	3,941.4	10.825	364.1
3201001	TOMWATKIN	DISTRIBUTION	2000	75.5	0.657	114.9
3201001	TOMWATKIN	DISTRIBUTION	2001	2,604.1	7.414	351.2
3201001	TOMWATKIN	DISTRIBUTION	2002	38.8	0.274	141.6
3201001	TOMWATKIN	DISTRIBUTION	2003	621.0	3.384	183.5
3201001	TOMWATKIN	DISTRIBUTION	2004	798.8	3.166	252.3
3202201	LOVELY	LOVELY	2000	152.6	1.041	146.6
3202201	LOVELY	LOVELY	2001	732.5	2.714	269.9
3202201	LOVELY	LOVELY	2002	992.9	5.058	196.3
3202201	LOVELY	LOVELY	2003	1,377.0	6.002	229.4
3202201	LOVELY	LOVELY	2004	942.6	2.691	350.3
3202202	LOVELY	WOLFCREEK	2000	7.2	0.040	182.2
3202202	LOVELY	WOLFCREEK	2001	537.3	2.445	219.7
3202202	LOVELY	WOLFCREEK	2002	313.8	1.653	189.8
3202202	LOVELY	WOLFCREEK	2003	1,532.3	6.215	246.6
3202202	LOVELY	WOLFCREEK	2004	3,451.9	5.139	671.7
3202203	LOVELY	MT.STERLINGBR.	2000	2.5	0.011	224.0
3202203	LOVELY	MT.STERLINGBR.	2001	6.1	0.031	198.5
3202203	LOVELY	MT.STERLINGBR.	2002	26.0	0.125	208.8
3202203	LOVELY	MT.STERLINGBR.	2003	858.7	3.728	230.3
3202203	LOVELY	MT.STERLINGBR.	2004	2,012.6	4.740	424.6
3300601	BLUEGRASS	WALKERTOW	2000	362.2	2.480	146.0
3300601	BLUEGRASS	WALKERTOW	2001	204.4	1.303	156.8
3300601	BLUEGRASS	WALKERTOW	2002	111.8	0.779	143.6
3300601	BLUEGRASS	WALKERTOW	2003	578.1	1.983	291.5
3300601	BLUEGRASS	WALKERTOW	2004	313.5	1.326	236.4
3300602	BLUEGRASS	HAZARD	2000	146.0	2.074	70.4
3300602	BLUEGRASS	HAZARD	2001	46.3	0.236	196.0
3300602	BLUEGRASS	HAZARD	2002	96.7	0.349	277.2
3300602	BLUEGRASS	HAZARD	2003	427.5	1.968	217.3
3300602	BLUEGRASS	HAZARD	2004	115.6	1.082	106.9
3301101	CHAVIES	CHAVIES	2000	77.5	0.258	300.7
3301101	CHAVIES	CHAVIES	2001	54.8	0.216	253.1
3301101	CHAVIES	CHAVIES	2002	1,019.0	2.518	404.7
3301101	CHAVIES	CHAVIES	2003	776.7	4.547	170.8
3301101	CHAVIES	CHAVIES	2004	2,185.4	2.245	973.5
3301401	COMBS	COMBS	2000	74.0	1.072	69.0
3301401	COMBS	COMBS	2001	34.0	0.180	189.5
3301401	COMBS	COMBS	2002	16.3	0.079	205.5
3301401	COMBS	COMBS	2003	72.2	0.359	201.0
3301401	COMBS	COMBS	2004	748.2	4.377	170.9
3301402	COMBS	AIRPORTGA	2000	558.1	3.483	160.2
3301402	COMBS	AIRPORTGA	2001	86.5	0.389	222.5
3301402	COMBS	AIRPORTGA	2002	533.2	2.426	219.8
3301402	COMBS	AIRPORTGA	2003	492.0	3.590	137.1
3301402	COMBS	AIRPORTGA	2004	962.1	5.053	190.4
3301701	DAISY	DAISY	2000	359.1	0.922	389.4
3301701	DAISY	DAISY	2001	1,088.4	2.217	491.0

3301701	DAISY	DAISY	2002	587.5	2.328	252.4
3301701	DAISY	DAISY	2003	485.8	1.945	249.8
3301701	DAISY	DAISY	2004	1,065.3	2.409	442.2
3302701	HAZARD	BLACKGOLD	2000	208.0	0.574	362.3
3302701	HAZARD	BLACKGOLD	2001	767.8	4.018	191.1
3302701	HAZARD	BLACKGOLD	2002	483.4	3.580	135.0
3302701	HAZARD	BLACKGOLD	2003	449.4	1.462	307.4
3302701	HAZARD	BLACKGOLD	2004	460.6	1.875	245.7
3302703	HAZARD	HAZARD	2000	7.2	0.046	155.8
3302703	HAZARD	HAZARD	2001	256.7	1.250	205.4
3302703	HAZARD	HAZARD	2002	10.4	0.067	155.3
3302703	HAZARD	HAZARD	2003	239.8	1.385	173.1
3302703	HAZARD	HAZARD	2004	104.0	0.419	248.4
3302704	HAZARD	KENMONT	2000	186.9	1.707	109.5
3302704	HAZARD	KENMONT	2001	566.9	4.405	128.7
3302704	HAZARD	KENMONT	2002	481.4	4.506	106.8
3302704	HAZARD	KENMONT	2003	366.2	3.539	103.5
3302704	HAZARD	KENMONT	2004	762.0	4.790	159.1
3303901	LESLIE	HYDEN	2000	1,939.9	7.372	263.1
3303901	LESLIE	HYDEN	2001	1,062.6	3.248	327.1
3303901	LESLIE	HYDEN	2002	2,370.9	8.987	263.8
3303901	LESLIE	HYDEN	2003	1,449.6	6.013	241.1
3303901	LESLIE	HYDEN	2004	2,995.4	8.547	350.4
3303902	LESLIE	WOOTON	2000	1,518.4	6.065	250.4
3303902	LESLIE	WOOTON	2001	2,070.8	5.021	412.4
3303902	LESLIE	WOOTON	2002	2,186.7	5.731	381.6
3303902	LESLIE	WOOTON	2003	1,797.4	7.881	228.1
3303902	LESLIE	WOOTON	2004	2,040.5	3.872	526.9
3303903	LESLIE	HALSFORK	2000	2,094.8	4.776	438.6
3303903	LESLIE	HALSFORK	2001	895.3	3.532	253.5
3303903	LESLIE	HALSFORK	2002	2,402.5	6.963	345.0
3303903	LESLIE	HALSFORK	2003	975.6	5.017	194.5
3303903	LESLIE	HALSFORK	2004	2,521.4	7.191	350.7
3307301	BULAN	ARY-HEINE	2000	378.0	1.334	283.3
3307301	BULAN	ARY-HEINE	2001	738.2	2.031	363.5
3307301	BULAN	ARY-HEINE	2002	3,390.4	10.026	338.2
3307301	BULAN	ARY-HEINE	2003	1,245.9	4.058	307.0
3307301	BULAN	ARY-HEINE	2004	995.1	5.245	189.7
3307302	BULAN	AJAX-DWAR	2000	499.1	0.800	624.1
3307302	BULAN	AJAX-DWAR	2001	673.5	2.286	294.7
3307302	BULAN	AJAX-DWAR	2002	2,525.6	4.177	604.7
3307302	BULAN	AJAX-DWAR	2003	591.4	2.816	210.0
3307302	BULAN	AJAX-DWAR	2004	1,160.5	5.367	216.2
3307303	BULAN	LOTTSCREE	2000	2.8	0.020	140.5
3307303	BULAN	LOTTSCREE	2001	76.3	0.332	230.0
3307303	BULAN	LOTTSCREE	2002	1.8	0.033	55.0
3307303	BULAN	LOTTSCREE	2003	0.0	0.000	0.0
3307303	BULAN	LOTTSCREE	2004	0.0	0.000	0.0
3308001	JACKSON	S.JACKSON	2000	386.8	1.357	285.0
3308001	JACKSON	S.JACKSON	2001	378.2	1.557	243.0
3308001	JACKSON	S.JACKSON	2002	817.8	2.057	397.5
3308001	JACKSON	S.JACKSON	2003	192.4	1.805	106.6

3308001	JACKSON	S.JACKSON	2004	376.6	0.852	442.1
3308002	JACKSON	PANBOWL	2000	117.2	0.447	262.0
3308002	JACKSON	PANBOWL	2001	162.4	0.821	197.8
3308002	JACKSON	PANBOWL	2002	496.0	2.611	189.9
3308002	JACKSON	PANBOWL	2003	544.4	2.241	242.9
3308002	JACKSON	PANBOWL	2004	590.6	1.880	314.1
3308401	BECKHAM	HINDMAN	2000	523.4	1.853	282.4
3308401	BECKHAM	HINDMAN	2001	1,069.6	3.179	336.5
3308401	BECKHAM	HINDMAN	2002	1,155.8	3.058	378.0
3308401	BECKHAM	HINDMAN	2003	3,806.1	5.583	681.7
3308401	BECKHAM	HINDMAN	2004	2,507.6	8.558	293.0
3308402	BECKHAM	CARRSFORK	2000	157.0	0.697	225.1
3308402	BECKHAM	CARRSFORK	2001	203.8	0.618	329.9
3308402	BECKHAM	CARRSFORK	2002	529.4	2.433	217.6
3308402	BECKHAM	CARRSFORK	2003	1,365.0	5.593	244.0
3308402	BECKHAM	CARRSFORK	2004	721.9	1.799	401.3
3308502	BONNYMAN	HAZARD	2000	340.3	2.160	157.6
3308502	BONNYMAN	HAZARD	2001	1,359.9	4.384	310.2
3308502	BONNYMAN	HAZARD	2002	525.4	2.550	206.1
3308502	BONNYMAN	HAZARD	2003	290.5	1.956	148.5
3308502	BONNYMAN	HAZARD	2004	949.7	2.240	424.1
3308503	BONNYMAN	BIGCREEK	2000	386.0	1.929	200.1
3308503	BONNYMAN	BIGCREEK	2001	878.5	5.198	169.0
3308503	BONNYMAN	BIGCREEK	2002	1,245.1	7.065	176.2
3308503	BONNYMAN	BIGCREEK	2003	474.2	2.906	163.1
3308503	BONNYMAN	BIGCREEK	2004	1,346.6	2.923	460.7
3308601	COLLIER	UPPERROCK	2000	856.9	3.049	281.1
3308601	COLLIER	UPPERROCK	2001	466.7	2.375	196.5
3308601	COLLIER	UPPERROCK	2002	1,120.3	5.774	194.0
3308601	COLLIER	UPPERROCK	2003	492.7	2.104	234.2
3308601	COLLIER	UPPERROCK	2004	587.4	3.830	153.4
3308602	COLLIER	LOWERROCK	2000	397.0	3.125	127.1
3308602	COLLIER	LOWERROCK	2001	2,317.3	3.876	597.9
3308602	COLLIER	LOWERROCK	2002	387.0	3.705	104.4
3308602	COLLIER	LOWERROCK	2003	605.6	3.252	186.2
3308602	COLLIER	LOWERROCK	2004	4,262.5	7.069	603.0
3308603	COLLIER	SMOOTCR	2000	1,137.1	4.747	239.5
3308603	COLLIER	SMOOTCR	2001	2,902.9	5.560	522.1
3308603	COLLIER	SMOOTCR	2002	362.3	0.882	410.5
3308603	COLLIER	SMOOTCR	2003	384.5	1.567	245.3
3308603	COLLIER	SMOOTCR	2004	654.1	2.342	279.3
3309001	JEFF	VIPER	2000	14.1	0.085	166.9
3309001	JEFF	VIPER	2001	1,305.2	4.084	319.6
3309001	JEFF	VIPER	2002	1,257.6	4.491	280.1
3309001	JEFF	VIPER	2003	890.8	4.723	188.6
3309001	JEFF	VIPER	2004	2,151.1	6.455	333.3
3309002	JEFF	JEFF	2000	6.1	0.043	140.0
3309002	JEFF	JEFF	2001	80.0	0.391	204.5
3309002	JEFF	JEFF	2002	600.4	1.257	477.6
3309002	JEFF	JEFF	2003	0.3	0.014	22.0
3309002	JEFF	JEFF	2004	10.1	0.071	141.0
3309101	WHITESBUR	WHITESBUR	2000	118.5	0.584	203.0

3309101	WHITESBUR	WHITESBUR	2001	894.3	4.022	222.4
3309101	WHITESBUR	WHITESBUR	2002	3.9	0.010	370.8
3309101	WHITESBUR	WHITESBUR	2003	2,949.5	4.820	611.9
3309101	WHITESBUR	WHITESBUR	2004	17.3	0.075	231.3
3309102	WHITESBUR	HOSPITAL	2000	13.3	0.081	163.3
3309102	WHITESBUR	HOSPITAL	2001	5.8	0.140	41.6
3309102	WHITESBUR	HOSPITAL	2002	0.0	0.000	0.0
3309102	WHITESBUR	HOSPITAL	2003	100.3	1.026	97.8
3309102	WHITESBUR	HOSPITAL	2004	0.0	0.000	0.0
3309103	WHITESBUR	COWAN	2000	229.7	1.018	225.7
3309103	WHITESBUR	COWAN	2001	1,853.1	3.572	518.7
3309103	WHITESBUR	COWAN	2002	1,036.1	2.571	402.9
3309103	WHITESBUR	COWAN	2003	1,626.5	4.840	336.1
3309103	WHITESBUR	COWAN	2004	2,068.1	4.276	483.6
3309104	WHITESBUR	CRAFTS COLLEY	2000	23.4	0.182	128.7
3309104	WHITESBUR	CRAFTS COLLEY	2001	1,699.0	3.642	466.5
3309104	WHITESBUR	CRAFTS COLLEY	2002	1,974.6	4.514	437.4
3309104	WHITESBUR	CRAFTS COLLEY	2003	346.7	1.839	188.5
3309104	WHITESBUR	CRAFTS COLLEY	2004	584.3	2.377	245.8
3309301	VICCO	REDFOX	2000	198.9	1.042	190.9
3309301	VICCO	REDFOX	2001	440.9	2.054	214.7
3309301	VICCO	REDFOX	2002	563.4	3.466	162.6
3309301	VICCO	REDFOX	2003	416.3	3.037	137.1
3309301	VICCO	REDFOX	2004	455.5	1.751	260.1
3309302	VICCO	JEFF	2000	105.6	0.338	312.7
3309302	VICCO	JEFF	2001	1,126.9	2.877	391.7
3309302	VICCO	JEFF	2002	988.3	4.022	245.7
3309302	VICCO	JEFF	2003	998.4	6.828	146.2
3309302	VICCO	JEFF	2004	868.2	3.265	265.9
3309901	SLEMP	DEFEATED CREEK	2000	197.4	1.490	132.5
3309901	SLEMP	DEFEATED CREEK	2001	1,298.1	2.619	495.7
3309901	SLEMP	DEFEATED CREEK	2002	371.4	1.083	342.8
3309901	SLEMP	DEFEATED CREEK	2003	1,506.9	4.028	374.1
3309901	SLEMP	DEFEATED CREEK	2004	576.8	2.083	276.9
3309902	SLEMP	LEATHERWOOD	2000	489.6	1.934	253.1
3309902	SLEMP	LEATHERWOOD	2001	2,443.6	5.752	424.8
3309902	SLEMP	LEATHERWOOD	2002	757.7	1.701	445.5
3309902	SLEMP	LEATHERWOOD	2003	357.6	2.192	163.1
3309902	SLEMP	LEATHERWOOD	2004	1,329.8	3.879	342.9
3309903	SLEMP	BEECH FORK	2000	225.0	2.000	112.5
3309903	SLEMP	BEECH FORK	2001	0.0	0.000	0.0
3309903	SLEMP	BEECH FORK	2002	0.0	0.000	0.0
3309903	SLEMP	BEECH FORK	2003	0.0	0.000	0.0
3309903	SLEMP	BEECH FORK	2004	283.0	2.000	141.5
3309904	SLEMP	ROYAL DIAMOND	2000	140.0	1.000	140.0
3309904	SLEMP	ROYAL DIAMOND	2001	221.0	1.000	221.0
3309904	SLEMP	ROYAL DIAMOND	2002	0.0	0.000	0.0
3309904	SLEMP	ROYAL DIAMOND	2003	68.0	0.333	204.0
3309904	SLEMP	ROYAL DIAMOND	2004	37.7	0.333	113.0
3310501	HADDIX	QUICKSAND	2000	1,609.7	5.265	305.8
3310501	HADDIX	QUICKSAND	2001	1,529.6	3.310	462.1
3310501	HADDIX	QUICKSAND	2002	3,992.8	9.063	440.6

3310501	HADDIX	QUICKSAND	2003	3,195.7	5.813	549.8
3310501	HADDIX	QUICKSAND	2004	2,114.1	4.456	474.4
3310502	HADDIX	CANOE	2000	478.6	1.779	269.1
3310502	HADDIX	CANOE	2001	1,698.3	4.494	377.9
3310502	HADDIX	CANOE	2002	2,450.2	9.332	262.6
3310502	HADDIX	CANOE	2003	581.3	3.371	172.4
3310502	HADDIX	CANOE	2004	2,968.7	7.257	409.1
3311101	STINNETT	REDBIRD	2000	1,530.0	5.163	296.3
3311101	STINNETT	REDBIRD	2001	1,430.9	4.282	334.2
3311101	STINNETT	REDBIRD	2002	1,619.7	6.635	244.1
3311101	STINNETT	REDBIRD	2003	1,544.4	6.942	222.5
3311101	STINNETT	REDBIRD	2004	2,298.0	11.224	204.7
3311102	STINNETT	BEECHFK	2000	549.0	1.000	549.0
3311102	STINNETT	BEECHFK	2001	0.0	0.000	0.0
3311102	STINNETT	BEECHFK	2002	10.7	0.042	256.0
3311102	STINNETT	BEECHFK	2003	12.2	0.083	146.0
3311102	STINNETT	BEECHFK	2004	66.0	0.417	158.4
3311401	REEDY	DEANE	2000	43.1	0.259	166.1
3311401	REEDY	DEANE	2001	388.2	1.543	251.6
3311401	REEDY	DEANE	2002	408.4	1.355	301.4
3311401	REEDY	DEANE	2003	150.3	0.662	227.1
3311401	REEDY	DEANE	2004	120.6	0.857	140.7
3311701	SHAMROCK	SHAMROCK	2000	0.0	0.000	0.0
3311701	SHAMROCK	SHAMROCK	2001	0.0	0.000	0.0
3311701	SHAMROCK	SHAMROCK	2002	0.0	0.000	0.0
3311701	SHAMROCK	SHAMROCK	2003	2,422.0	2.000	1,211.0
3311701	SHAMROCK	SHAMROCK	2004	3,202.0	1.000	3,202.0
3312201	ENGLE	INDUSTRIAL PARK	2000	1,534.0	5.000	306.8
3312201	ENGLE	INDUSTRIAL PARK	2001	30.0	1.000	30.0
3312201	ENGLE	INDUSTRIAL PARK	2002	35.6	0.154	231.5
3312201	ENGLE	INDUSTRIAL PARK	2003	14.2	0.154	92.0
3312201	ENGLE	INDUSTRIAL PARK	2004	0.0	0.000	0.0
3312202	ENGLE	GRAPEVINE	2000	834.7	4.388	190.2
3312202	ENGLE	GRAPEVINE	2001	2,307.6	7.511	307.2
3312202	ENGLE	GRAPEVINE	2002	433.3	2.384	181.7
3312202	ENGLE	GRAPEVINE	2003	830.8	2.867	289.8
3312202	ENGLE	GRAPEVINE	2004	2,715.9	3.582	758.2
3312901	JENKINS	KONA	2000	157.8	0.788	200.1
3312901	JENKINS	KONA	2001	1,546.6	3.861	400.5
3312901	JENKINS	KONA	2002	42.6	0.259	165.0
3312901	JENKINS	KONA	2003	470.6	2.430	193.7
3312901	JENKINS	KONA	2004	277.8	1.464	189.7
3312902	JENKINS	JENKINS	2000	259.6	1.597	162.6
3312902	JENKINS	JENKINS	2001	62.0	0.291	213.6
3312902	JENKINS	JENKINS	2002	20.5	0.090	228.9
3312902	JENKINS	JENKINS	2003	261.3	2.225	117.4
3312902	JENKINS	JENKINS	2004	348.6	2.971	117.3
3314401	MAYKING	ERMINE	2000	121.5	0.693	175.3
3314401	MAYKING	ERMINE	2001	1,670.4	2.598	642.9
3314401	MAYKING	ERMINE	2002	559.5	3.247	172.3
3314401	MAYKING	ERMINE	2003	568.8	1.732	328.3
3314401	MAYKING	ERMINE	2004	505.9	3.362	150.5

3314402	MAYKING	MILLSTONE	2000	36.7	0.297	123.7
3314402	MAYKING	MILLSTONE	2001	1,648.5	2.688	613.2
3314402	MAYKING	MILLSTONE	2002	1,289.0	3.802	339.0
3314402	MAYKING	MILLSTONE	2003	902.8	2.067	436.8
3314402	MAYKING	MILLSTONE	2004	730.0	2.567	284.4
3400101	ALLEN	DISTRIBUTION	2000	36.6	0.132	277.0
3400101	ALLEN	DISTRIBUTION	2001	83.5	0.592	141.1
3400101	ALLEN	DISTRIBUTION	2002	7.3	0.056	129.0
3400101	ALLEN	DISTRIBUTION	2003	70.8	1.369	51.7
3400101	ALLEN	DISTRIBUTION	2004	677.7	0.914	741.3
3400301	BETSYLAYN	MUDCREEK	2000	274.1	1.150	238.4
3400301	BETSYLAYN	MUDCREEK	2001	1,077.0	3.584	300.5
3400301	BETSYLAYN	MUDCREEK	2002	672.9	3.752	179.4
3400301	BETSYLAYN	MUDCREEK	2003	414.7	1.938	214.0
3400301	BETSYLAYN	MUDCREEK	2004	1,675.5	2.851	587.8
3400302	BETSYLAYN	TRAM	2000	36.1	0.243	148.8
3400302	BETSYLAYN	TRAM	2001	347.9	1.230	282.9
3400302	BETSYLAYN	TRAM	2002	474.3	2.551	186.0
3400302	BETSYLAYN	TRAM	2003	261.3	1.611	162.2
3400302	BETSYLAYN	TRAM	2004	740.9	2.192	338.0
3400303	BETSYLAYN	HAROLD	2000	195.2	0.914	213.6
3400303	BETSYLAYN	HAROLD	2001	377.2	1.962	192.3
3400303	BETSYLAYN	HAROLD	2002	246.0	1.073	229.1
3400303	BETSYLAYN	HAROLD	2003	111.9	0.833	134.2
3400303	BETSYLAYN	HAROLD	2004	303.7	1.427	212.9
3400401	BIGCREEK	DISTRIBUTION	2000	570.0	1.000	570.0
3400401	BIGCREEK	DISTRIBUTION	2001	0.0	0.000	0.0
3400401	BIGCREEK	DISTRIBUTION	2002	0.0	0.000	0.0
3400401	BIGCREEK	DISTRIBUTION	2003	0.0	0.000	0.0
3400401	BIGCREEK	DISTRIBUTION	2004	0.0	0.000	0.0
3400601	BURTON	LIGON-CLE	2000	160.3	1.136	141.1
3400601	BURTON	LIGON-CLE	2001	565.8	1.529	370.0
3400601	BURTON	LIGON-CLE	2002	158.9	0.472	336.9
3400601	BURTON	LIGON-CLE	2003	341.5	1.496	228.2
3400601	BURTON	LIGON-CLE	2004	244.3	0.673	362.9
3400602	BURTON	WHEELWRIG	2000	101.5	0.948	107.0
3400602	BURTON	WHEELWRIG	2001	422.1	0.719	587.1
3400602	BURTON	WHEELWRIG	2002	310.6	1.048	296.4
3400602	BURTON	WHEELWRIG	2003	281.8	1.324	212.8
3400602	BURTON	WHEELWRIG	2004	2,682.8	1.844	1,455.2
3400701	DRAFFIN	BELCHER	2000	46.2	0.202	228.4
3400701	DRAFFIN	BELCHER	2001	22.6	0.081	279.9
3400701	DRAFFIN	BELCHER	2002	628.1	2.577	243.7
3400701	DRAFFIN	BELCHER	2003	205.9	2.499	82.4
3400701	DRAFFIN	BELCHER	2004	172.0	0.507	339.2
3400702	DRAFFIN	YELLOWHIL	2000	66.3	0.418	158.5
3400702	DRAFFIN	YELLOWHIL	2001	67.9	0.263	258.0
3400702	DRAFFIN	YELLOWHIL	2002	362.2	3.123	116.0
3400702	DRAFFIN	YELLOWHIL	2003	472.5	2.539	186.1
3400702	DRAFFIN	YELLOWHIL	2004	1,798.3	5.183	347.0
3400901	ELKHORNCI	CITY	2000	167.9	0.669	251.0
3400901	ELKHORNCI	CITY	2001	21.0	0.188	112.1

3400901	ELKHORNCI	CITY	2002	29.6	0.388	76.3
3400901	ELKHORNCI	CITY	2003	936.4	3.805	246.1
3400901	ELKHORNCI	CITY	2004	639.7	5.718	111.9
3400902	ELKHORNCI	GRASSY	2000	355.2	0.806	440.4
3400902	ELKHORNCI	GRASSY	2001	0.0	0.000	0.0
3400902	ELKHORNCI	GRASSY	2002	260.9	1.292	202.0
3400902	ELKHORNCI	GRASSY	2003	51.9	0.333	155.8
3400902	ELKHORNCI	GRASSY	2004	1,137.0	4.292	264.9
3401001	ELWOOD	DORTON	2000	542.7	3.767	144.1
3401001	ELWOOD	DORTON	2001	1,793.4	6.345	282.6
3401001	ELWOOD	DORTON	2002	1,340.9	6.049	221.7
3401001	ELWOOD	DORTON	2003	956.0	4.891	195.4
3401001	ELWOOD	DORTON	2004	3,555.6	7.758	458.3
3401002	ELWOOD	VIRGIE-IN	2000	629.2	2.346	268.1
3401002	ELWOOD	VIRGIE-IN	2001	363.9	1.781	204.3
3401002	ELWOOD	VIRGIE-IN	2002	154.8	0.795	194.8
3401002	ELWOOD	VIRGIE-IN	2003	565.5	2.058	274.8
3401002	ELWOOD	VIRGIE-IN	2004	2,541.9	3.714	684.5
3401101	FALCON	FALC-OILS	2000	206.1	0.835	247.0
3401101	FALCON	FALC-OILS	2001	1,175.7	4.356	269.9
3401101	FALCON	FALC-OILS	2002	1,434.0	4.210	340.6
3401101	FALCON	FALC-OILS	2003	438.4	1.545	283.8
3401101	FALCON	FALC-OILS	2004	1,002.2	3.867	259.2
3401102	FALCON	SALYERSVI	2000	43.0	0.318	135.4
3401102	FALCON	SALYERSVI	2001	612.4	2.875	213.0
3401102	FALCON	SALYERSVI	2002	66.8	0.408	163.8
3401102	FALCON	SALYERSVI	2003	220.0	0.903	243.8
3401102	FALCON	SALYERSVI	2004	217.6	0.760	286.2
3401103	FALCON	BURNINGFK	2000	189.0	1.090	173.4
3401103	FALCON	BURNINGFK	2001	1,441.6	3.768	382.6
3401103	FALCON	BURNINGFK	2002	281.4	2.149	131.0
3401103	FALCON	BURNINGFK	2003	132.9	0.712	186.8
3401103	FALCON	BURNINGFK	2004	914.8	1.778	514.4
3401104	FALCON	PARKWAY	2000	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2001	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2002	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2003	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2004	0.0	0.000	0.0
3401301	FLEMING	NEON	2000	24.4	0.084	289.7
3401301	FLEMING	NEON	2001	276.1	0.594	465.1
3401301	FLEMING	NEON	2002	239.3	1.144	209.2
3401301	FLEMING	NEON	2003	171.8	0.666	258.0
3401301	FLEMING	NEON	2004	131.7	0.985	133.7
3401302	FLEMING	MCROBERTS	2000	511.4	3.302	154.9
3401302	FLEMING	MCROBERTS	2001	572.2	3.823	149.7
3401302	FLEMING	MCROBERTS	2002	603.9	2.506	241.0
3401302	FLEMING	MCROBERTS	2003	469.7	4.504	104.3
3401302	FLEMING	MCROBERTS	2004	654.9	1.700	385.2
3401702	HENRYCLAY	REGINA	2000	749.2	5.823	128.7
3401702	HENRYCLAY	REGINA	2001	926.6	4.452	208.1
3401702	HENRYCLAY	REGINA	2002	680.8	3.754	181.3
3401702	HENRYCLAY	REGINA	2003	528.1	2.041	258.7

3401702	HENRYCLAY	REGINA	2004	1,377.4	5.177	266.1
3401703	HENRYCLAY	ASHCAMP	2000	521.0	2.609	199.7
3401703	HENRYCLAY	ASHCAMP	2001	531.2	2.222	239.0
3401703	HENRYCLAY	ASHCAMP	2002	108.5	1.049	103.4
3401703	HENRYCLAY	ASHCAMP	2003	476.9	2.407	198.1
3401703	HENRYCLAY	ASHCAMP	2004	752.6	1.907	394.7
3401801	INDEX	DISTRIBUTION	2000	200.8	1.078	186.3
3401801	INDEX	DISTRIBUTION	2001	860.1	2.272	378.5
3401801	INDEX	DISTRIBUTION	2002	324.6	2.010	161.5
3401801	INDEX	DISTRIBUTION	2003	113.8	0.632	180.0
3401801	INDEX	DISTRIBUTION	2004	2,318.2	7.164	323.6
3401802	INDEX	HOSPITAL	2000	514.4	3.248	158.3
3401802	INDEX	HOSPITAL	2001	866.3	3.407	254.3
3401802	INDEX	HOSPITAL	2002	185.9	0.707	262.7
3401802	INDEX	HOSPITAL	2003	75.2	0.946	79.5
3401802	INDEX	HOSPITAL	2004	275.3	2.337	117.8
3402001	KEYSER	MULLINS	2000	13.3	0.111	120.0
3402001	KEYSER	MULLINS	2001	261.9	2.036	128.6
3402001	KEYSER	MULLINS	2002	37.5	0.397	94.5
3402001	KEYSER	MULLINS	2003	312.9	1.414	221.4
3402001	KEYSER	MULLINS	2004	75.6	1.207	62.6
3402002	KEYSER	STONECOAL	2000	53.2	0.275	193.4
3402002	KEYSER	STONECOAL	2001	20.5	0.134	153.3
3402002	KEYSER	STONECOAL	2002	152.7	0.501	304.9
3402002	KEYSER	STONECOAL	2003	229.7	1.545	148.6
3402002	KEYSER	STONECOAL	2004	770.0	2.125	362.4
3402202	MCKINNEY	GIBSON	2000	361.9	2.945	122.9
3402202	MCKINNEY	GIBSON	2001	1,078.3	4.302	250.6
3402202	MCKINNEY	GIBSON	2002	505.8	5.908	85.6
3402202	MCKINNEY	GIBSON	2003	564.6	3.251	173.7
3402202	MCKINNEY	GIBSON	2004	1,392.4	1.785	780.3
3402204	MCKINNEY	MAYTOWN	2000	54.0	1.076	50.2
3402204	MCKINNEY	MAYTOWN	2001	278.3	2.689	103.5
3402204	MCKINNEY	MAYTOWN	2002	93.7	0.692	135.4
3402204	MCKINNEY	MAYTOWN	2003	526.3	3.122	168.5
3402204	MCKINNEY	MAYTOWN	2004	982.9	2.864	343.2
3402501	MIDDLECRE	DISTRIBUTION	2000	94.3	1.006	93.7
3402501	MIDDLECRE	DISTRIBUTION	2001	132.2	1.626	81.3
3402501	MIDDLECRE	DISTRIBUTION	2002	282.3	0.760	371.5
3402501	MIDDLECRE	DISTRIBUTION	2003	272.8	1.287	212.0
3402501	MIDDLECRE	DISTRIBUTION	2004	140.1	0.202	695.2
3402801	PAINTSVIL	CITY	2000	15.9	0.123	129.8
3402801	PAINTSVIL	CITY	2001	166.3	1.350	123.2
3402801	PAINTSVIL	CITY	2002	156.5	1.815	86.2
3402801	PAINTSVIL	CITY	2003	161.4	1.150	140.3
3402801	PAINTSVIL	CITY	2004	67.8	0.451	150.4
3402802	PAINTSVIL	NIPPA	2000	491.1	2.934	167.4
3402802	PAINTSVIL	NIPPA	2001	0.0	0.000	0.0
3402802	PAINTSVIL	NIPPA	2002	36.9	0.194	190.1
3402802	PAINTSVIL	NIPPA	2003	133.7	1.070	125.0
3402802	PAINTSVIL	NIPPA	2004	262.6	1.526	172.1
3403001	PIKEVILLE	CITY	2000	297.6	1.804	165.0

3403001	PIKEVILLE	CITY	2001	41.7	0.252	165.7
3403001	PIKEVILLE	CITY	2002	127.9	0.429	298.3
3403001	PIKEVILLE	CITY	2003	85.8	1.106	77.5
3403001	PIKEVILLE	CITY	2004	389.9	1.061	367.5
3403002	PIKEVILLE	MAINST	2000	40.4	0.303	133.2
3403002	PIKEVILLE	MAINST	2001	108.0	1.570	68.8
3403002	PIKEVILLE	MAINST	2002	88.1	0.258	341.1
3403002	PIKEVILLE	MAINST	2003	23.9	0.261	91.6
3403002	PIKEVILLE	MAINST	2004	145.4	0.322	451.5
3403003	PIKEVILLE	CEDAR CREEK	2000	15.6	0.198	78.8
3403003	PIKEVILLE	CEDAR CREEK	2001	835.7	1.327	629.6
3403003	PIKEVILLE	CEDAR CREEK	2002	491.2	1.724	285.0
3403003	PIKEVILLE	CEDAR CREEK	2003	177.8	1.911	93.1
3403003	PIKEVILLE	CEDAR CREEK	2004	460.7	3.059	150.6
3403201	BEAVERCRE	DISTRIBUTION	2000	171.9	0.785	219.0
3403201	BEAVERCRE	DISTRIBUTION	2001	1,234.4	2.716	454.4
3403201	BEAVERCRE	DISTRIBUTION	2002	206.1	0.692	297.7
3403201	BEAVERCRE	DISTRIBUTION	2003	2,471.1	4.229	584.3
3403201	BEAVERCRE	DISTRIBUTION	2004	2,010.1	2.943	682.9
3403301	PRESTONSB	CITY	2000	6.1	0.027	222.9
3403301	PRESTONSB	CITY	2001	175.2	1.304	134.4
3403301	PRESTONSB	CITY	2002	183.1	0.868	211.0
3403301	PRESTONSB	CITY	2003	583.3	2.159	270.1
3403301	PRESTONSB	CITY	2004	59.6	1.101	54.2
3403302	PRESTONSB	UNIVERSIT	2000	267.0	1.099	243.0
3403302	PRESTONSB	UNIVERSIT	2001	47.1	0.189	248.7
3403302	PRESTONSB	UNIVERSIT	2002	61.7	0.215	287.1
3403302	PRESTONSB	UNIVERSIT	2003	97.7	0.575	169.8
3403302	PRESTONSB	UNIVERSIT	2004	1,021.2	2.338	436.8
3403701	RUSSELLFO	LITTLEBEA	2000	56.4	0.249	226.1
3403701	RUSSELLFO	LITTLEBEA	2001	47.3	0.452	104.6
3403701	RUSSELLFO	LITTLEBEA	2002	422.5	1.376	307.0
3403701	RUSSELLFO	LITTLEBEA	2003	771.2	2.872	268.5
3403701	RUSSELLFO	LITTLEBEA	2004	1,348.5	6.000	224.8
3403801	SECONDFOR	DISTRIBUTION	2000	157.2	1.167	134.7
3403801	SECONDFOR	DISTRIBUTION	2001	1,264.8	3.667	345.0
3403801	SECONDFOR	DISTRIBUTION	2002	43.2	0.267	162.0
3403801	SECONDFOR	DISTRIBUTION	2003	414.3	2.067	200.5
3403801	SECONDFOR	DISTRIBUTION	2004	7.5	0.067	113.0
3404002	SPRINGFOR	1PHASEDIS	2000	13.2	0.073	180.0
3404002	SPRINGFOR	1PHASEDIS	2001	722.2	2.268	318.4
3404002	SPRINGFOR	1PHASEDIS	2002	1,909.0	3.333	572.7
3404002	SPRINGFOR	1PHASEDIS	2003	2,278.0	4.500	506.2
3404002	SPRINGFOR	1PHASEDIS	2004	2,968.0	3.667	809.5
3404301	SIDNEY	BIGCREEK	2000	82.4	0.482	171.1
3404301	SIDNEY	BIGCREEK	2001	1,011.2	1.747	579.0
3404301	SIDNEY	BIGCREEK	2002	166.4	0.768	216.6
3404301	SIDNEY	BIGCREEK	2003	256.0	2.173	117.8
3404301	SIDNEY	BIGCREEK	2004	1,378.1	1.070	1,287.6
3404302	SIDNEY	COBURNMTN	2000	73.4	0.442	166.0
3404302	SIDNEY	COBURNMTN	2001	202.8	0.538	377.1
3404302	SIDNEY	COBURNMTN	2002	169.4	0.784	216.1

3404302	SIDNEY	COBURNMTN	2003	384.3	2.220	173.1
3404302	SIDNEY	COBURNMTN	2004	2,045.3	2.380	859.3
3407101	TOPMOST	DISTRIBUTION	2000	102.7	0.562	182.6
3407101	TOPMOST	DISTRIBUTION	2001	342.6	1.347	254.2
3407101	TOPMOST	DISTRIBUTION	2002	565.8	3.398	166.5
3407101	TOPMOST	DISTRIBUTION	2003	655.0	3.873	169.1
3407101	TOPMOST	DISTRIBUTION	2004	1,599.4	2.404	665.2
3407102	TOPMOST	STINSONMI	2000	362.4	1.371	264.3
3407102	TOPMOST	STINSONMI	2001	446.7	2.743	162.8
3407102	TOPMOST	STINSONMI	2002	389.8	2.702	144.3
3407102	TOPMOST	STINSONMI	2003	2,793.6	15.140	184.5
3407102	TOPMOST	STINSONMI	2004	130.8	0.351	372.9
3407401	MARTIN	DISTRIBUTION	2000	34.1	0.269	127.1
3407401	MARTIN	DISTRIBUTION	2001	216.0	2.342	92.2
3407401	MARTIN	DISTRIBUTION	2002	524.6	2.099	250.0
3407401	MARTIN	DISTRIBUTION	2003	323.3	2.101	153.9
3407401	MARTIN	DISTRIBUTION	2004	5,958.6	3.138	1,899.0
3408101	SALISBURY	DISTRIBUTION	2000	452.0	1.671	270.5
3408101	SALISBURY	DISTRIBUTION	2001	452.1	3.707	122.0
3408101	SALISBURY	DISTRIBUTION	2002	1,058.7	2.698	392.3
3408101	SALISBURY	DISTRIBUTION	2003	5.4	0.047	114.9
3408101	SALISBURY	DISTRIBUTION	2004	406.7	1.272	319.9
3408102	SALISBURY	EVAN-ELKH	2000	3.5	0.041	85.8
3408102	SALISBURY	EVAN-ELKH	2001	57.7	0.935	61.7
3408102	SALISBURY	EVAN-ELKH	2002	877.7	0.896	979.4
3408102	SALISBURY	EVAN-ELKH	2003	178.3	1.292	138.0
3408102	SALISBURY	EVAN-ELKH	2004	6,619.0	5.774	1,146.4
3408301	COLEMAN	COALCO	2000	8,186.0	55.000	148.8
3408301	COLEMAN	COALCO	2001	14,727.0	50.000	294.5
3408301	COLEMAN	COALCO	2002	1,563.0	5.000	312.6
3408301	COLEMAN	COALCO	2003	0.0	0.000	0.0
3408301	COLEMAN	COALCO	2004	0.0	0.000	0.0
3408303	COLEMAN	PETERCRK	2000	36.8	0.196	188.2
3408303	COLEMAN	PETERCRK	2001	0.0	0.000	0.0
3408303	COLEMAN	PETERCRK	2002	1,778.1	4.628	384.2
3408303	COLEMAN	PETERCRK	2003	596.3	2.305	258.7
3408303	COLEMAN	PETERCRK	2004	2,229.5	2.929	761.2
3408401	KIMPER	LONGFORK	2000	610.5	2.917	209.3
3408401	KIMPER	LONGFORK	2001	282.2	1.314	214.8
3408401	KIMPER	LONGFORK	2002	1,458.4	3.123	467.0
3408401	KIMPER	LONGFORK	2003	240.0	1.189	202.0
3408401	KIMPER	LONGFORK	2004	2,258.9	4.238	533.0
3408402	KIMPER	GRAPEVINE	2000	44.0	0.293	150.2
3408402	KIMPER	GRAPEVINE	2001	1,420.3	4.514	314.6
3408402	KIMPER	GRAPEVINE	2002	2,430.8	3.667	662.9
3408402	KIMPER	GRAPEVINE	2003	1,050.0	3.022	347.4
3408402	KIMPER	GRAPEVINE	2004	3,643.7	8.279	440.1
3409001	W.PAINTSV	PAINTSVIL	2000	49.2	0.775	63.4
3409001	W.PAINTSV	PAINTSVIL	2001	147.6	1.531	96.4
3409001	W.PAINTSV	PAINTSVIL	2002	99.8	0.682	146.5
3409001	W.PAINTSV	PAINTSVIL	2003	109.5	0.364	301.0
3409001	W.PAINTSV	PAINTSVIL	2004	128.7	0.851	151.2

3409002	W.PAINTSV	STAFFORDSVILLE	2000	115.5	0.399	289.4
3409002	W.PAINTSV	STAFFORDSVILLE	2001	169.1	0.561	301.4
3409002	W.PAINTSV	STAFFORDSVILLE	2002	430.8	1.764	244.1
3409002	W.PAINTSV	STAFFORDSVILLE	2003	134.4	1.232	109.1
3409002	W.PAINTSV	STAFFORDSVILLE	2004	946.3	4.186	226.1
3409003	W.PAINTSV	PLAZA	2000	1,200.0	6.000	200.0
3409003	W.PAINTSV	PLAZA	2001	1.3	0.013	95.3
3409003	W.PAINTSV	PLAZA	2002	9.2	0.055	166.3
3409003	W.PAINTSV	PLAZA	2003	56.6	1.213	46.6
3409003	W.PAINTSV	PLAZA	2004	250.5	0.928	269.9
3409301	KENWOOD	WWANLEAR	2000	99.3	0.607	163.4
3409301	KENWOOD	WWANLEAR	2001	133.1	0.664	200.4
3409301	KENWOOD	WWANLEAR	2002	646.5	2.713	238.3
3409301	KENWOOD	WWANLEAR	2003	716.1	1.183	605.5
3409301	KENWOOD	WWANLEAR	2004	483.2	1.459	331.2
3409302	KENWOOD	AUXIER	2000	28.9	0.155	186.5
3409302	KENWOOD	AUXIER	2001	534.2	1.540	346.8
3409302	KENWOOD	AUXIER	2002	1,415.0	5.253	269.4
3409302	KENWOOD	AUXIER	2003	748.1	1.928	388.1
3409302	KENWOOD	AUXIER	2004	991.7	3.322	298.5
3409303	KENWOOD	HAGERHILL	2000	61.8	0.336	184.1
3409303	KENWOOD	HAGERHILL	2001	875.2	4.498	194.6
3409303	KENWOOD	HAGERHILL	2002	834.1	3.840	217.2
3409303	KENWOOD	HAGERHILL	2003	218.7	1.081	202.3
3409303	KENWOOD	HAGERHILL	2004	2,144.3	5.491	390.5
3409401	FEDSCREEK	FEDSCREEK	2000	7.4	0.042	173.3
3409401	FEDSCREEK	FEDSCREEK	2001	1,022.3	2.921	350.0
3409401	FEDSCREEK	FEDSCREEK	2002	1,008.7	2.455	411.0
3409401	FEDSCREEK	FEDSCREEK	2003	777.4	2.409	322.7
3409401	FEDSCREEK	FEDSCREEK	2004	1,208.6	7.488	161.4
3409402	FEDSCREEK	LICKCREEK	2000	160.6	0.896	179.3
3409402	FEDSCREEK	LICKCREEK	2001	102.5	0.287	357.5
3409402	FEDSCREEK	LICKCREEK	2002	256.2	1.555	164.7
3409402	FEDSCREEK	LICKCREEK	2003	285.7	1.550	184.4
3409402	FEDSCREEK	LICKCREEK	2004	818.0	3.916	208.9
3409502	BURDINE	LEVISA	2000	193.6	1.106	175.1
3409502	BURDINE	LEVISA	2001	1,027.4	4.005	256.5
3409502	BURDINE	LEVISA	2002	1,076.7	4.560	236.1
3409502	BURDINE	LEVISA	2003	2,993.9	4.523	661.9
3409502	BURDINE	LEVISA	2004	1,548.8	2.954	524.3
3409503	BURDINE	JENKINS/SHELBY GAP	2000	82.4	0.527	156.3
3409503	BURDINE	JENKINS/SHELBY GAP	2001	362.5	2.180	166.2
3409503	BURDINE	JENKINS/SHELBY GAP	2002	398.7	2.645	150.7
3409503	BURDINE	JENKINS/SHELBY GAP	2003	33.8	0.202	167.5
3409503	BURDINE	JENKINS/SHELBY GAP	2004	320.0	0.872	366.9
3410501	S.PIKEVIL	PIKEVILLE	2000	113.1	0.630	179.6
3410501	S.PIKEVIL	PIKEVILLE	2001	31.4	0.154	203.4
3410501	S.PIKEVIL	PIKEVILLE	2002	148.6	0.802	185.4
3410501	S.PIKEVIL	PIKEVILLE	2003	83.1	1.158	71.8
3410501	S.PIKEVIL	PIKEVILLE	2004	1,356.9	3.199	424.1
3410502	S.PIKEVIL	ISLANDCRE	2000	27.6	0.254	108.7
3410502	S.PIKEVIL	ISLANDCRE	2001	702.7	3.742	187.8

3410502	S.PIKEVIL	ISLANDCRE	2002	276.7	1.575	175.7
3410502	S.PIKEVIL	ISLANDCRE	2003	331.8	1.752	189.4
3410502	S.PIKEVIL	ISLANDCRE	2004	742.8	1.087	683.1
3410503	S.PIKEVIL	HOSPITAL	2000	656.0	2.000	328.0
3410503	S.PIKEVIL	HOSPITAL	2001	0.0	0.000	0.0
3410503	S.PIKEVIL	HOSPITAL	2002	3.9	0.045	86.3
3410503	S.PIKEVIL	HOSPITAL	2003	4.6	0.034	137.5
3410503	S.PIKEVIL	HOSPITAL	2004	3.5	0.028	125.2
3410601	E.PRESTON	PRESTONSB	2000	1.2	0.007	161.0
3410601	E.PRESTON	PRESTONSB	2001	136.2	0.219	621.9
3410601	E.PRESTON	PRESTONSB	2002	265.9	0.795	334.4
3410601	E.PRESTON	PRESTONSB	2003	218.7	1.092	200.4
3410601	E.PRESTON	PRESTONSB	2004	188.9	0.728	259.6
3410602	E.PRESTON	LANCER	2000	3.6	0.039	92.8
3410602	E.PRESTON	LANCER	2001	53.9	0.260	207.6
3410602	E.PRESTON	LANCER	2002	440.6	1.160	379.9
3410602	E.PRESTON	LANCER	2003	640.6	2.584	247.8
3410602	E.PRESTON	LANCER	2004	159.5	0.498	320.2
3411401	DEWEY	INEZ	2000	103.4	0.825	125.4
3411401	DEWEY	INEZ	2001	1,051.3	3.779	278.2
3411401	DEWEY	INEZ	2002	2,118.6	11.718	180.8
3411401	DEWEY	INEZ	2003	3,404.7	7.905	430.7
3411401	DEWEY	INEZ	2004	1,842.4	8.057	228.7
3411801	JOHNSCREE	META	2000	706.2	3.609	195.7
3411801	JOHNSCREE	META	2001	2,759.1	9.937	277.6
3411801	JOHNSCREE	META	2002	2,200.4	10.717	205.3
3411801	JOHNSCREE	META	2003	1,583.2	9.403	168.4
3411801	JOHNSCREE	META	2004	6,365.2	10.918	583.0
3411802	JOHNSCREE	RACCOON	2000	45.6	0.448	101.8
3411802	JOHNSCREE	RACCOON	2001	1,126.9	2.526	446.2
3411802	JOHNSCREE	RACCOON	2002	1,417.0	4.460	317.7
3411802	JOHNSCREE	RACCOON	2003	816.1	3.290	248.1
3411802	JOHNSCREE	RACCOON	2004	2,564.3	7.541	340.0
3411901	FORDSBRAN	SHELBY	2000	28.2	0.097	291.7
3411901	FORDSBRAN	SHELBY	2001	3.4	0.012	272.1
3411901	FORDSBRAN	SHELBY	2002	67.8	1.425	47.6
3411901	FORDSBRAN	SHELBY	2003	145.3	0.635	228.8
3411901	FORDSBRAN	SHELBY	2004	1,530.2	6.816	224.5
3411902	FORDSBRAN	ROBINSONC	2000	429.4	2.254	190.5
3411902	FORDSBRAN	ROBINSONC	2001	794.7	2.275	349.3
3411902	FORDSBRAN	ROBINSONC	2002	57.2	0.484	118.1
3411902	FORDSBRAN	ROBINSONC	2003	641.1	2.433	263.5
3411902	FORDSBRAN	ROBINSONC	2004	8,579.7	8.497	1,009.8
3412901	WEEKSBURY	DISTRIBUTION	2000	759.0	1.969	385.5
3412901	WEEKSBURY	DISTRIBUTION	2001	180.5	0.638	283.0
3412901	WEEKSBURY	DISTRIBUTION	2002	814.4	2.967	274.5
3412901	WEEKSBURY	DISTRIBUTION	2003	2,300.8	5.552	414.4
3412901	WEEKSBURY	DISTRIBUTION	2004	303.2	1.372	221.0
3413401	GARRETT	GARRETT	2000	137.6	0.566	243.3
3413401	GARRETT	GARRETT	2001	789.9	2.381	331.8
3413401	GARRETT	GARRETT	2002	384.7	1.948	197.5
3413401	GARRETT	GARRETT	2003	1,367.1	4.207	324.9

3413401	GARRETT	GARRETT	2004	2,783.0	8.088	344.1
3413402	GARRETT	LACKEY	2003	25.5	0.108	236.7
3413402	GARRETT	LACKEY	2004	3,649.6	4.296	849.5
3414501	CONSOLIDATE COAL	COAL COMPANY	2000	0.0	0.000	0.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2001	0.0	0.000	0.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2002	0.0	0.000	0.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2003	35.0	1.000	35.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2004	0.0	0.000	0.0
3414901	FISHTRAP	DISTRIBUTION	2000	140.0	0.275	509.2
3414901	FISHTRAP	DISTRIBUTION	2001	188.0	0.350	537.0
3414901	FISHTRAP	DISTRIBUTION	2002	638.4	0.400	1,596.0
3414901	FISHTRAP	DISTRIBUTION	2003	128.6	0.400	321.5
3414901	FISHTRAP	DISTRIBUTION	2004	417.0	2.200	189.5
3417601	NEW CAMP	SOUTH SIDE	2001	1.2	0.016	74.6
3417601	NEW CAMP	SOUTH SIDE	2002	12.3	0.539	22.7
3417601	NEW CAMP	SOUTH SIDE	2003	90.5	1.171	77.3
3417601	NEW CAMP	SOUTH SIDE	2004	2,153.9	3.829	562.5
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2001	128.0	1.105	115.8
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2002	191.2	1.065	179.5
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2003	259.7	1.640	158.4
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2004	2,957.5	2.609	1,133.8
3451201	BEEFHIDE	BEEFHIDE	2000	25.0	0.167	150.0
3451201	BEEFHIDE	BEEFHIDE	2001	0.0	0.000	0.0
3451201	BEEFHIDE	BEEFHIDE	2002	677.3	2.667	254.0
3451201	BEEFHIDE	BEEFHIDE	2003	72.7	0.333	218.0
3451201	BEEFHIDE	BEEFHIDE	2004	253.5	0.167	1,521.0
3451202	BEEFHIDE	DUNHAM	2000	110.7	0.470	235.5
3451202	BEEFHIDE	DUNHAM	2001	533.9	1.683	317.2
3451202	BEEFHIDE	DUNHAM	2002	167.9	0.849	197.8
3451202	BEEFHIDE	DUNHAM	2003	562.7	3.062	183.8
3451202	BEEFHIDE	DUNHAM	2004	160.2	1.260	127.2

**Historical Circuit Performance Excluding Jurisdiction-Level IEEE Major Event Day**

CktID	Station Name	Circuit Name	Year	SAIDI	SAIFI	CAIDI
2150103	SPRIGG	MATEWAN	2000	0.0	0.000	0.0
2150103	SPRIGG	MATEWAN	2001	207.3	1.607	129.0
2150103	SPRIGG	MATEWAN	2002	708.7	1.882	376.5
2150103	SPRIGG	MATEWAN	2003	2,758.0	14.412	191.4
2150103	SPRIGG	MATEWAN	2004	3,584.8	25.228	142.1
2150501	BORDERLAND	NOLAN	2000	62.8	0.487	128.9
2150501	BORDERLAND	NOLAN	2001	29.5	0.137	215.4
2150501	BORDERLAND	NOLAN	2002	260.0	2.177	119.4
2150501	BORDERLAND	NOLAN	2003	1,419.7	7.031	201.9
2150501	BORDERLAND	NOLAN	2004	1,164.7	5.919	196.8
2150502	BORDERLAND	CHATTAROY	2000	2.3	0.028	81.4
2150502	BORDERLAND	CHATTAROY	2001	137.1	1.500	91.4
2150502	BORDERLAND	CHATTAROY	2002	1,293.9	1.697	762.4
2150502	BORDERLAND	CHATTAROY	2003	924.5	5.669	163.1
2150502	BORDERLAND	CHATTAROY	2004	1,746.2	6.099	286.3
2206403	SOUTH NEAL	WHITES CREEK RD	2000	0.0	0.000	0.0
2206403	SOUTH NEAL	WHITES CREEK RD	2001	176.2	3.067	57.4
2206403	SOUTH NEAL	WHITES CREEK RD	2002	424.3	3.159	134.3
2206403	SOUTH NEAL	WHITES CREEK RD	2003	602.5	2.425	248.5
2206403	SOUTH NEAL	WHITES CREEK RD	2004	1,342.5	2.655	505.7
2970603	HURLEY	RACEFORK	2000	0.0	0.000	0.0
2970603	HURLEY	RACEFORK	2001	0.0	0.000	0.0
2970603	HURLEY	RACEFORK	2002	0.0	0.000	0.0
2970603	HURLEY	RACEFORK	2003	2,812.3	21.000	133.9
2970603	HURLEY	RACEFORK	2004	7,016.0	72.000	97.4
2974101	BIG ROCK	CONAWAY	2000	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2001	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2002	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2003	0.0	0.000	0.0
2974101	BIG ROCK	CONAWAY	2004	0.0	0.000	0.0
3000101	ASHLAND	25-25STRE	2000	220.6	1.622	136.0
3000101	ASHLAND	25-25STRE	2001	160.8	1.529	105.2
3000101	ASHLAND	25-25STRE	2002	48.3	0.345	140.1
3000101	ASHLAND	25-25STRE	2003	13.6	0.167	81.6
3000101	ASHLAND	25-25STRE	2004	0.4	0.003	119.0
3000102	ASHLAND	25-29STRE	2000	54.7	1.545	35.4
3000102	ASHLAND	25-29STRE	2001	150.7	2.031	74.2
3000102	ASHLAND	25-29STRE	2002	185.1	0.396	467.3
3000102	ASHLAND	25-29STRE	2003	108.3	1.167	92.8
3000102	ASHLAND	25-29STRE	2004	121.2	1.047	115.8
3000103	ASHLAND	25-14STRE	2000	86.6	1.096	79.0
3000103	ASHLAND	25-14STRE	2001	22.2	0.339	65.4
3000103	ASHLAND	25-14STRE	2002	98.6	0.109	908.4
3000103	ASHLAND	25-14STRE	2003	282.7	1.039	272.2
3000103	ASHLAND	25-14STRE	2004	1.5	0.008	195.0
3000104	ASHLAND	25-2-3	2000	89.1	1.070	83.2
3000104	ASHLAND	25-2-3	2001	3.0	0.022	136.0
3000104	ASHLAND	25-2-3	2002	12.8	0.041	311.2
3000104	ASHLAND	25-2-3	2003	4.3	0.031	139.7

3000104	ASHLAND	25-2-3	2004	200.1	1.667	120.0
3000105	ASHLAND	25-1	2000	58.5	1.525	38.4
3000105	ASHLAND	25-1	2001	4.4	0.098	45.0
3000105	ASHLAND	25-1	2002	1.8	0.015	115.0
3000105	ASHLAND	25-1	2003	198.1	0.969	204.4
3000105	ASHLAND	25-1	2004	113.6	0.200	568.1
3000201	BIG SANDY	FALLS BURG SOUTH	2000	497.7	2.585	192.5
3000201	BIG SANDY	FALLS BURG SOUTH	2001	380.2	3.303	115.1
3000201	BIG SANDY	FALLS BURG SOUTH	2002	293.3	3.049	96.2
3000201	BIG SANDY	FALLS BURG SOUTH	2003	575.2	2.567	224.1
3000201	BIG SANDY	FALLS BURG SOUTH	2004	353.4	1.349	262.0
3000202	BIG SANDY	BURNAUGH NORTH	2001	81.6	1.345	60.7
3000202	BIG SANDY	BURNAUGH NORTH	2002	259.2	2.594	99.9
3000202	BIG SANDY	BURNAUGH NORTH	2003	260.0	1.127	230.7
3000202	BIG SANDY	BURNAUGH NORTH	2004	583.9	2.751	212.2
3000301	BELLEFONT	WESTWOOD	2000	123.7	0.735	168.5
3000301	BELLEFONT	WESTWOOD	2001	407.6	4.062	100.4
3000301	BELLEFONT	WESTWOOD	2002	1,012.8	3.261	310.6
3000301	BELLEFONT	WESTWOOD	2003	83.0	0.360	230.8
3000301	BELLEFONT	WESTWOOD	2004	32.3	0.267	120.9
3000302	BELLEFONT	FLATWOODS	2000	21.1	0.716	29.4
3000302	BELLEFONT	FLATWOODS	2001	9.1	0.044	207.0
3000302	BELLEFONT	FLATWOODS	2002	401.1	3.778	106.2
3000302	BELLEFONT	FLATWOODS	2003	93.4	0.528	177.0
3000302	BELLEFONT	FLATWOODS	2004	272.2	0.657	414.1
3000303	BELLEFONT	BELLEFONT	2000	228.0	1.404	162.4
3000303	BELLEFONT	BELLEFONT	2001	156.8	2.159	72.6
3000303	BELLEFONT	BELLEFONT	2002	824.5	3.319	248.4
3000303	BELLEFONT	BELLEFONT	2003	188.2	0.882	213.4
3000303	BELLEFONT	BELLEFONT	2004	130.9	1.731	75.6
3000304	BELLEFONT	ASHLAND TOWN CENTER	2000	9.8	0.556	17.7
3000304	BELLEFONT	ASHLAND TOWN CENTER	2001	7.3	0.105	69.0
3000304	BELLEFONT	ASHLAND TOWN CENTER	2002	400.8	2.063	194.3
3000304	BELLEFONT	ASHLAND TOWN CENTER	2003	52.9	0.188	282.0
3000304	BELLEFONT	ASHLAND TOWN CENTER	2004	18.4	0.188	98.0
3000601	GRAHN	PLEASANTV	2000	161.5	1.284	125.8
3000601	GRAHN	PLEASANTV	2001	163.9	0.674	243.3
3000601	GRAHN	PLEASANTV	2002	657.8	2.178	302.0
3000601	GRAHN	PLEASANTV	2003	1,973.9	3.523	560.3
3000601	GRAHN	PLEASANTV	2004	987.9	5.866	168.4
3000701	GRAYSBRAN	GRAYSBRAN	2000	156.3	0.814	192.0
3000701	GRAYSBRAN	GRAYSBRAN	2001	747.0	3.171	235.6
3000701	GRAYSBRAN	GRAYSBRAN	2002	507.3	2.627	193.1
3000701	GRAYSBRAN	GRAYSBRAN	2003	361.8	2.209	163.8
3000701	GRAYSBRAN	GRAYSBRAN	2004	231.6	2.165	107.0
3000801	HAYWARD	HALDEMAN	2000	157.5	0.538	292.7
3000801	HAYWARD	HALDEMAN	2001	206.9	1.192	173.5
3000801	HAYWARD	HALDEMAN	2002	338.3	1.177	287.6
3000801	HAYWARD	HALDEMAN	2003	1,657.9	2.616	633.7
3000801	HAYWARD	HALDEMAN	2004	653.7	1.774	368.5
3000802	HAYWARD	LAWTON	2000	477.1	0.791	603.4
3000802	HAYWARD	LAWTON	2001	268.1	1.133	236.5

3000802	HAYWARD	LAWTON	2002	562.1	1.747	321.7
3000802	HAYWARD	LAWTON	2003	3,273.3	4.786	683.9
3000802	HAYWARD	LAWTON	2004	302.9	1.099	275.6
3000901	HIGHLAND	RUSSELL	2000	228.2	2.518	90.6
3000901	HIGHLAND	RUSSELL	2001	65.8	0.697	94.4
3000901	HIGHLAND	RUSSELL	2002	248.5	0.970	256.1
3000901	HIGHLAND	RUSSELL	2003	9.9	0.073	135.2
3000901	HIGHLAND	RUSSELL	2004	415.2	1.300	319.3
3000902	HIGHLAND	FLATWOODS	2000	138.0	1.013	136.2
3000902	HIGHLAND	FLATWOODS	2001	169.7	0.882	192.3
3000902	HIGHLAND	FLATWOODS	2002	313.6	1.973	159.0
3000902	HIGHLAND	FLATWOODS	2003	325.9	1.923	169.5
3000902	HIGHLAND	FLATWOODS	2004	874.8	3.028	288.9
3000903	HIGHLAND	WURTLAND	2000	20.4	0.396	51.5
3000903	HIGHLAND	WURTLAND	2001	150.7	1.723	87.4
3000903	HIGHLAND	WURTLAND	2002	153.3	1.640	93.5
3000903	HIGHLAND	WURTLAND	2003	114.0	0.339	336.0
3000903	HIGHLAND	WURTLAND	2004	204.7	0.574	356.7
3001001	HITCHINS	DAMRONBRA	2000	8.7	0.072	121.4
3001001	HITCHINS	DAMRONBRA	2001	444.2	1.685	263.7
3001001	HITCHINS	DAMRONBRA	2002	121.3	0.796	152.4
3001001	HITCHINS	DAMRONBRA	2003	308.6	1.162	265.5
3001001	HITCHINS	DAMRONBRA	2004	811.3	2.482	326.8
3001002	HITCHINS	WILLARD	2000	62.6	0.337	185.9
3001002	HITCHINS	WILLARD	2001	374.8	1.514	247.6
3001002	HITCHINS	WILLARD	2002	632.2	1.973	320.4
3001002	HITCHINS	WILLARD	2003	607.6	2.681	226.7
3001002	HITCHINS	WILLARD	2004	321.5	1.513	212.6
3001003	HITCHINS	HITCH-GRA	2000	352.6	2.953	119.4
3001003	HITCHINS	HITCH-GRA	2001	144.7	0.879	164.7
3001003	HITCHINS	HITCH-GRA	2002	184.8	1.540	120.0
3001003	HITCHINS	HITCH-GRA	2003	219.3	1.028	213.3
3001003	HITCHINS	HITCH-GRA	2004	69.6	0.624	111.6
3001101	HOODSCREE	SUMMIT	2000	74.2	0.559	132.8
3001101	HOODSCREE	SUMMIT	2001	195.2	0.890	219.4
3001101	HOODSCREE	SUMMIT	2002	153.0	0.617	248.0
3001101	HOODSCREE	SUMMIT	2003	48.2	0.447	107.7
3001101	HOODSCREE	SUMMIT	2004	301.4	1.550	194.4
3001102	HOODSCREE	RURAL	2000	38.6	0.326	118.5
3001102	HOODSCREE	RURAL	2001	234.6	1.615	145.3
3001102	HOODSCREE	RURAL	2002	95.8	1.319	72.7
3001102	HOODSCREE	RURAL	2003	314.3	0.669	470.2
3001102	HOODSCREE	RURAL	2004	413.6	3.130	132.1
3001201	HOWARDCOL	13STREET	2000	34.8	0.373	93.1
3001201	HOWARDCOL	13STREET	2001	82.9	0.738	112.3
3001201	HOWARDCOL	13STREET	2002	90.2	1.083	83.3
3001201	HOWARDCOL	13STREET	2003	146.6	1.684	87.0
3001201	HOWARDCOL	13STREET	2004	404.1	3.316	121.9
3001202	HOWARDCOL	29STREET	2000	119.6	1.501	79.7
3001202	HOWARDCOL	29STREET	2001	20.8	0.393	53.0
3001202	HOWARDCOL	29STREET	2002	232.9	1.266	184.0
3001202	HOWARDCOL	29STREET	2003	370.1	1.765	209.6

3001202	HOWARDCOL	29STREET	2004	77.3	0.439	176.2
3001203	HOWARDCOL	FLOYD	2000	160.4	2.425	66.1
3001203	HOWARDCOL	FLOYD	2001	101.4	0.959	105.7
3001203	HOWARDCOL	FLOYD	2002	37.4	0.326	114.7
3001203	HOWARDCOL	FLOYD	2003	95.4	1.082	88.2
3001203	HOWARDCOL	FLOYD	2004	252.9	2.160	117.0
3001204	HOWARDCOL	SUMMIT	2000	140.6	1.001	140.4
3001204	HOWARDCOL	SUMMIT	2001	64.7	0.375	172.3
3001204	HOWARDCOL	SUMMIT	2002	143.8	0.635	226.6
3001204	HOWARDCOL	SUMMIT	2003	158.6	2.578	61.5
3001204	HOWARDCOL	SUMMIT	2004	108.1	1.782	60.7
3001401	LOUISA	CITY	2000	13.3	0.157	85.1
3001401	LOUISA	CITY	2001	127.9	2.017	63.4
3001401	LOUISA	CITY	2002	132.2	0.532	248.6
3001401	LOUISA	CITY	2003	86.8	1.226	70.8
3001401	LOUISA	CITY	2004	186.9	1.308	142.9
3001402	LOUISA	HIGHBOTTOM	2000	11.0	0.070	157.6
3001402	LOUISA	HIGHBOTTOM	2001	222.1	2.474	89.8
3001402	LOUISA	HIGHBOTTOM	2002	360.5	1.616	223.2
3001402	LOUISA	HIGHBOTTOM	2003	174.6	1.606	108.7
3001402	LOUISA	HIGHBOTTOM	2004	63.4	0.559	113.4
3002001	S.SHORE	SILOAM	2000	169.5	0.825	205.5
3002001	S.SHORE	SILOAM	2001	29.4	0.224	131.1
3002001	S.SHORE	SILOAM	2002	149.2	0.253	588.7
3002001	S.SHORE	SILOAM	2003	1,233.4	1.817	678.7
3002001	S.SHORE	SILOAM	2004	175.6	1.421	123.5
3002002	S.SHORE	DISTRIBUTION	2000	29.6	0.136	218.2
3002002	S.SHORE	DISTRIBUTION	2001	134.2	0.340	394.5
3002002	S.SHORE	DISTRIBUTION	2002	76.6	0.326	234.6
3002002	S.SHORE	DISTRIBUTION	2003	394.3	0.535	736.8
3002002	S.SHORE	DISTRIBUTION	2004	42.3	0.383	110.3
3002101	10STREET	6STREET	2000	25.7	0.137	187.1
3002101	10STREET	6STREET	2001	24.8	0.205	120.8
3002101	10STREET	6STREET	2002	81.4	1.530	53.2
3002101	10STREET	6STREET	2003	304.5	3.536	86.1
3002101	10STREET	6STREET	2004	55.3	0.884	62.6
3002102	10STREET	10-2	2000	5.2	0.114	45.7
3002102	10STREET	10-2	2001	2.8	0.079	36.0
3002102	10STREET	10-2	2002	0.0	0.000	0.0
3002102	10STREET	10-2	2003	183.9	0.958	192.0
3002102	10STREET	10-2	2004	4.4	0.017	258.5
3002103	10STREET	12STREET	2000	106.1	0.487	217.7
3002103	10STREET	12STREET	2001	280.5	1.678	167.2
3002103	10STREET	12STREET	2002	70.4	0.374	188.2
3002103	10STREET	12STREET	2003	61.0	0.503	121.1
3002103	10STREET	12STREET	2004	81.1	0.555	146.1
3002104	10STREET	10-3	2000	33.5	0.320	104.9
3002104	10STREET	10-3	2001	13.0	0.161	81.0
3002104	10STREET	10-3	2002	5.6	0.021	262.6
3002104	10STREET	10-3	2003	460.4	2.339	196.9
3002104	10STREET	10-3	2004	122.8	1.095	112.1
3003701	COALTON	U.S.60W	2000	281.7	2.226	126.5

3003701	COALTON	U.S.60W	2001	85.4	0.331	258.4
3003701	COALTON	U.S.60W	2002	123.0	1.266	97.1
3003701	COALTON	U.S.60W	2003	569.6	1.840	309.6
3003701	COALTON	U.S.60W	2004	100.4	0.623	161.2
3003702	COALTON	CANNONSBU	2000	404.8	1.931	209.6
3003702	COALTON	CANNONSBU	2001	83.1	1.386	59.9
3003702	COALTON	CANNONSBU	2002	43.4	0.226	191.8
3003702	COALTON	CANNONSBU	2003	244.4	1.713	142.7
3003702	COALTON	CANNONSBU	2004	232.4	2.072	112.2
3003703	COALTON	TRACECREE	2000	1,010.5	3.412	296.1
3003703	COALTON	TRACECREE	2001	265.1	1.947	136.1
3003703	COALTON	TRACECREE	2002	341.4	1.880	181.6
3003703	COALTON	TRACECREE	2003	393.1	1.554	252.9
3003703	COALTON	TRACECREE	2004	309.8	1.547	200.2
3004301	SILOAM	DISTRIBUTION	2000	212.8	1.620	131.4
3004301	SILOAM	DISTRIBUTION	2001	34.6	0.234	148.0
3004301	SILOAM	DISTRIBUTION	2002	64.4	0.623	103.4
3004301	SILOAM	DISTRIBUTION	2003	1,516.5	1.257	1,206.7
3004301	SILOAM	DISTRIBUTION	2004	313.6	2.267	138.3
3007903	BUSSEYVILLE	LOUISA	2000	938.1	3.177	295.3
3007903	BUSSEYVILLE	LOUISA	2001	682.2	3.559	191.7
3007903	BUSSEYVILLE	LOUISA	2002	557.2	1.398	398.5
3007903	BUSSEYVILLE	LOUISA	2003	789.8	2.547	310.2
3007903	BUSSEYVILLE	LOUISA	2004	586.7	2.186	268.4
3007904	BUSSEYVILLE	TORCHLITE	2000	1,409.0	2.855	493.6
3007904	BUSSEYVILLE	TORCHLITE	2001	730.8	2.776	263.3
3007904	BUSSEYVILLE	TORCHLITE	2002	1,036.7	4.181	247.9
3007904	BUSSEYVILLE	TORCHLITE	2003	912.6	3.477	262.5
3007904	BUSSEYVILLE	TORCHLITE	2004	552.5	2.694	205.1
3008001	47TH STREET	49TH STREET	2000	171.8	1.486	115.7
3008001	47TH STREET	49TH STREET	2001	93.1	0.671	138.8
3008001	47TH STREET	49TH STREET	2002	252.1	1.492	169.0
3008001	47TH STREET	49TH STREET	2003	384.8	2.531	152.0
3008001	47TH STREET	49TH STREET	2004	316.5	1.592	198.8
3008002	47TH STREET	39TH STREET	2000	218.5	1.926	113.4
3008002	47TH STREET	39TH STREET	2001	162.6	2.106	77.2
3008002	47TH STREET	39TH STREET	2002	55.3	0.843	65.6
3008002	47TH STREET	39TH STREET	2003	25.7	0.146	176.4
3008002	47TH STREET	39TH STREET	2004	558.9	6.242	89.5
3008003	47TH STREET	CATLETTSB	2000	121.0	1.263	95.9
3008003	47TH STREET	CATLETTSB	2001	222.6	4.451	50.0
3008003	47TH STREET	CATLETTSB	2002	113.7	0.542	209.9
3008003	47TH STREET	CATLETTSB	2003	140.6	1.290	109.0
3008003	47TH STREET	CATLETTSB	2004	63.8	0.270	236.2
3008701	CANNONSBU	CANNONSBU	2000	104.3	0.569	183.5
3008701	CANNONSBU	CANNONSBU	2001	102.4	0.684	149.8
3008701	CANNONSBU	CANNONSBU	2002	186.9	1.329	140.6
3008701	CANNONSBU	CANNONSBU	2003	339.2	2.007	169.0
3008701	CANNONSBU	CANNONSBU	2004	384.0	2.659	144.4
3008702	CANNONSBU	ROUTE3	2000	85.2	0.552	154.2
3008702	CANNONSBU	ROUTE3	2001	382.3	2.006	190.6
3008702	CANNONSBU	ROUTE3	2002	579.9	3.985	145.5

3008702	CANNONSBU	ROUTE3	2003	495.8	3.034	163.4
3008702	CANNONSBU	ROUTE3	2004	449.7	2.462	182.6
3010601	RUSSELL	KENWOOD	2000	239.1	2.663	89.8
3010601	RUSSELL	KENWOOD	2001	244.0	0.894	272.9
3010601	RUSSELL	KENWOOD	2002	24.4	0.220	111.1
3010601	RUSSELL	KENWOOD	2003	14.9	0.133	112.3
3010601	RUSSELL	KENWOOD	2004	147.0	1.591	92.4
3010602	RUSSELL	BEARRUN	2000	108.6	1.295	83.9
3010602	RUSSELL	BEARRUN	2001	20.4	0.195	104.7
3010602	RUSSELL	BEARRUN	2002	48.6	0.348	139.6
3010602	RUSSELL	BEARRUN	2003	308.2	1.082	284.8
3010602	RUSSELL	BEARRUN	2004	172.0	2.061	83.5
3010603	RUSSELL	ASHLANDOI	2000	33.5	0.375	89.3
3010603	RUSSELL	ASHLANDOI	2001	0.0	0.000	0.0
3010603	RUSSELL	ASHLANDOI	2002	0.0	0.000	0.0
3010603	RUSSELL	ASHLANDOI	2003	0.0	0.000	0.0
3010603	RUSSELL	ASHLANDOI	2004	272.7	3.000	90.9
3103101	OLIVEHILL	GLOBE	2000	477.5	2.081	229.4
3103101	OLIVEHILL	GLOBE	2001	60.9	0.366	166.4
3103101	OLIVEHILL	GLOBE	2002	295.2	0.973	303.5
3103101	OLIVEHILL	GLOBE	2003	3,306.7	5.616	588.8
3103101	OLIVEHILL	GLOBE	2004	750.5	3.374	222.4
3103102	OLIVEHILL	CITY	2000	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2001	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2002	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2003	0.0	0.000	0.0
3103102	OLIVEHILL	CITY	2004	0.0	0.000	0.0
3109201	MANSBACH	SHREDDER	2003	0.0	0.000	0.0
3109201	MANSBACH	SHREDDER	2004	0.0	0.000	0.0
3110901	WURTLAND	WURTLAND	2000	38.6	0.375	103.0
3110901	WURTLAND	WURTLAND	2001	46.1	0.320	144.1
3110901	WURTLAND	WURTLAND	2002	160.8	1.710	94.1
3110901	WURTLAND	WURTLAND	2003	20.0	0.290	69.0
3110901	WURTLAND	WURTLAND	2004	6.6	0.065	102.5
3110902	WURTLAND	GREENUP	2000	29.0	0.230	126.5
3110902	WURTLAND	GREENUP	2001	116.0	1.004	115.5
3110902	WURTLAND	GREENUP	2002	633.7	2.812	225.4
3110902	WURTLAND	GREENUP	2003	1,743.2	2.084	836.3
3110902	WURTLAND	GREENUP	2004	806.5	2.878	280.2
3110903	WURTLAND	RT.503	2000	105.1	0.619	169.7
3110903	WURTLAND	RT.503	2001	70.5	0.461	152.8
3110903	WURTLAND	RT.503	2002	348.5	1.662	209.7
3110903	WURTLAND	RT.503	2003	430.1	1.328	324.0
3110903	WURTLAND	RT.503	2004	333.1	1.578	211.1
3116101	GRAYSON	LANSDOWNE	2000	308.3	3.049	101.1
3116101	GRAYSON	LANSDOWNE	2001	245.0	2.275	107.7
3116101	GRAYSON	LANSDOWNE	2002	53.3	0.427	124.8
3116101	GRAYSON	LANSDOWNE	2003	166.9	2.395	69.7
3116101	GRAYSON	LANSDOWNE	2004	141.5	0.557	253.9
3116102	GRAYSON	DIXIEPARK	2000	112.0	0.769	145.6
3116102	GRAYSON	DIXIEPARK	2001	242.7	2.385	101.7
3116102	GRAYSON	DIXIEPARK	2002	159.5	0.875	182.3

3116102	GRAYSON	DIXIEPARK	2003	113.4	0.476	238.2
3116102	GRAYSON	DIXIEPARK	2004	212.7	1.119	190.1
3116701	BELHAVEN	THOMPSON ROAD	2000	50.6	0.404	125.1
3116701	BELHAVEN	THOMPSON ROAD	2001	130.6	1.595	81.9
3116701	BELHAVEN	THOMPSON ROAD	2002	476.4	1.916	248.6
3116701	BELHAVEN	THOMPSON ROAD	2003	135.8	0.704	192.9
3116701	BELHAVEN	THOMPSON ROAD	2004	138.1	1.495	92.3
3116702	BELHAVEN	INDIAN RUN	2000	42.0	0.247	169.9
3116702	BELHAVEN	INDIAN RUN	2001	72.0	0.767	93.9
3116702	BELHAVEN	INDIAN RUN	2002	248.8	1.369	181.7
3116702	BELHAVEN	INDIAN RUN	2003	121.8	0.694	175.6
3116702	BELHAVEN	INDIAN RUN	2004	32.8	0.372	88.1
3116703	BELHAVEN	ARGILLITE ROAD	2000	63.1	0.360	175.2
3116703	BELHAVEN	ARGILLITE ROAD	2001	75.5	0.630	119.8
3116703	BELHAVEN	ARGILLITE ROAD	2002	146.0	1.549	94.3
3116703	BELHAVEN	ARGILLITE ROAD	2003	88.7	0.373	237.7
3116703	BELHAVEN	ARGILLITE ROAD	2004	78.1	0.455	171.7
3117601	PRINCESS	MEADE STATION	2000	96.9	0.760	127.5
3117601	PRINCESS	MEADE STATION	2001	141.9	1.451	97.8
3117601	PRINCESS	MEADE STATION	2002	150.4	0.743	202.4
3117601	PRINCESS	MEADE STATION	2003	94.6	0.510	185.4
3117601	PRINCESS	MEADE STATION	2004	85.3	0.738	115.6
3117602	PRINCESS	ROUTE 180	2000	6.1	0.054	114.4
3117602	PRINCESS	ROUTE 180	2001	85.4	0.469	182.2
3117602	PRINCESS	ROUTE 180	2002	294.7	0.981	300.4
3117602	PRINCESS	ROUTE 180	2003	2.4	0.015	161.8
3117602	PRINCESS	ROUTE 180	2004	140.0	0.845	165.6
3200201	BARRENSHE	FREEBURN	2000	231.5	1.876	123.4
3200201	BARRENSHE	FREEBURN	2001	524.7	1.947	269.5
3200201	BARRENSHE	FREEBURN	2002	506.7	1.698	298.4
3200201	BARRENSHE	FREEBURN	2003	1,432.3	2.223	644.3
3200201	BARRENSHE	FREEBURN	2004	229.4	2.325	98.7
3200202	BARRENSHE	VULCAN	2000	381.7	2.576	148.2
3200202	BARRENSHE	VULCAN	2001	762.1	1.179	646.4
3200202	BARRENSHE	VULCAN	2002	444.7	1.946	228.6
3200202	BARRENSHE	VULCAN	2003	1,565.1	4.942	316.7
3200202	BARRENSHE	VULCAN	2004	659.9	3.268	202.0
3200203	BARRENSHE	SLATE BRANCH	2000	409.0	4.000	102.3
3200203	BARRENSHE	SLATE BRANCH	2001	37.8	0.213	177.3
3200203	BARRENSHE	SLATE BRANCH	2002	4,968.0	46.000	108.0
3200203	BARRENSHE	SLATE BRANCH	2003	0.0	0.000	0.0
3200203	BARRENSHE	SLATE BRANCH	2004	0.0	0.000	0.0
3200204	BARRENSHE	POUNDING	2000	139.9	1.260	111.1
3200204	BARRENSHE	POUNDING	2001	117.2	0.383	305.8
3200204	BARRENSHE	POUNDING	2002	270.1	2.191	123.3
3200204	BARRENSHE	POUNDING	2003	370.2	2.965	124.9
3200204	BARRENSHE	POUNDING	2004	461.7	3.627	127.3
3200301	BELFRY	BELFRY	2000	176.2	1.736	101.5
3200301	BELFRY	BELFRY	2001	245.9	2.913	84.4
3200301	BELFRY	BELFRY	2002	90.3	1.047	86.3
3200301	BELFRY	BELFRY	2003	3.2	0.028	112.8
3200301	BELFRY	BELFRY	2004	319.7	1.055	302.9

3200302	BELFRY	TOLER	2000	42.3	0.957	44.2
3200302	BELFRY	TOLER	2001	140.8	2.424	58.1
3200302	BELFRY	TOLER	2002	305.4	2.892	105.6
3200302	BELFRY	TOLER	2003	154.8	1.464	105.7
3200302	BELFRY	TOLER	2004	988.6	6.883	143.6
3201001	TOMWATKIN	DISTRIBUTION	2000	75.5	0.657	114.9
3201001	TOMWATKIN	DISTRIBUTION	2001	1,654.6	6.414	258.0
3201001	TOMWATKIN	DISTRIBUTION	2002	32.3	0.210	154.0
3201001	TOMWATKIN	DISTRIBUTION	2003	475.3	2.342	203.0
3201001	TOMWATKIN	DISTRIBUTION	2004	537.6	2.974	180.7
3202201	LOVELY	LOVELY	2000	152.6	1.041	146.6
3202201	LOVELY	LOVELY	2001	428.9	2.162	198.4
3202201	LOVELY	LOVELY	2002	920.9	4.691	196.3
3202201	LOVELY	LOVELY	2003	953.0	4.964	192.0
3202201	LOVELY	LOVELY	2004	806.7	2.581	312.6
3202202	LOVELY	WOLFCREEK	2000	7.2	0.040	182.2
3202202	LOVELY	WOLFCREEK	2001	439.8	2.322	189.4
3202202	LOVELY	WOLFCREEK	2002	264.5	1.542	171.5
3202202	LOVELY	WOLFCREEK	2003	1,469.9	6.158	238.7
3202202	LOVELY	WOLFCREEK	2004	2,138.8	4.278	500.0
3202203	LOVELY	MT.STERLINGBR.	2000	2.5	0.011	224.0
3202203	LOVELY	MT.STERLINGBR.	2001	6.1	0.031	198.5
3202203	LOVELY	MT.STERLINGBR.	2002	24.4	0.121	202.2
3202203	LOVELY	MT.STERLINGBR.	2003	858.7	3.728	230.3
3202203	LOVELY	MT.STERLINGBR.	2004	1,138.5	2.626	433.5
3300601	BLUEGRASS	WALKERTOW	2000	362.2	2.480	146.0
3300601	BLUEGRASS	WALKERTOW	2001	162.2	1.255	129.3
3300601	BLUEGRASS	WALKERTOW	2002	83.1	0.723	114.9
3300601	BLUEGRASS	WALKERTOW	2003	241.9	1.139	212.4
3300601	BLUEGRASS	WALKERTOW	2004	43.8	0.264	165.6
3300602	BLUEGRASS	HAZARD	2000	146.0	2.074	70.4
3300602	BLUEGRASS	HAZARD	2001	46.3	0.236	196.0
3300602	BLUEGRASS	HAZARD	2002	56.1	0.311	180.5
3300602	BLUEGRASS	HAZARD	2003	421.4	1.959	215.1
3300602	BLUEGRASS	HAZARD	2004	5.7	0.073	77.8
3301101	CHAVIES	CHAVIES	2000	77.5	0.258	300.7
3301101	CHAVIES	CHAVIES	2001	54.1	0.215	251.2
3301101	CHAVIES	CHAVIES	2002	809.4	2.267	357.1
3301101	CHAVIES	CHAVIES	2003	773.4	4.530	170.7
3301101	CHAVIES	CHAVIES	2004	559.7	1.472	380.2
3301401	COMBS	COMBS	2000	74.0	1.072	69.0
3301401	COMBS	COMBS	2001	34.0	0.180	189.5
3301401	COMBS	COMBS	2002	14.0	0.074	189.2
3301401	COMBS	COMBS	2003	72.2	0.359	201.0
3301401	COMBS	COMBS	2004	364.5	2.347	155.3
3301402	COMBS	AIRPORTGA	2000	558.1	3.483	160.2
3301402	COMBS	AIRPORTGA	2001	86.5	0.389	222.5
3301402	COMBS	AIRPORTGA	2002	336.0	2.191	153.4
3301402	COMBS	AIRPORTGA	2003	456.7	3.496	130.6
3301402	COMBS	AIRPORTGA	2004	151.1	2.231	67.7
3301701	DAISY	DAISY	2000	359.1	0.922	389.4
3301701	DAISY	DAISY	2001	323.8	1.378	234.9

3301701	DAISY	DAISY	2002	491.8	2.264	217.2
3301701	DAISY	DAISY	2003	485.8	1.945	249.8
3301701	DAISY	DAISY	2004	592.0	1.804	328.1
3302701	HAZARD	BLACKGOLD	2000	199.3	0.559	356.7
3302701	HAZARD	BLACKGOLD	2001	411.9	3.179	129.6
3302701	HAZARD	BLACKGOLD	2002	334.5	2.601	128.6
3302701	HAZARD	BLACKGOLD	2003	449.4	1.462	307.4
3302701	HAZARD	BLACKGOLD	2004	277.0	1.656	167.2
3302703	HAZARD	HAZARD	2000	6.6	0.045	147.9
3302703	HAZARD	HAZARD	2001	256.7	1.250	205.4
3302703	HAZARD	HAZARD	2002	9.2	0.064	143.2
3302703	HAZARD	HAZARD	2003	239.8	1.385	173.1
3302703	HAZARD	HAZARD	2004	78.1	0.337	231.5
3302704	HAZARD	KENMONT	2000	186.9	1.707	109.5
3302704	HAZARD	KENMONT	2001	563.3	4.386	128.4
3302704	HAZARD	KENMONT	2002	381.7	4.137	92.3
3302704	HAZARD	KENMONT	2003	315.9	3.364	93.9
3302704	HAZARD	KENMONT	2004	646.9	4.361	148.4
3303901	LESLIE	HYDEN	2000	1,595.9	6.372	250.4
3303901	LESLIE	HYDEN	2001	1,055.7	3.238	326.1
3303901	LESLIE	HYDEN	2002	1,621.7	7.434	218.2
3303901	LESLIE	HYDEN	2003	1,262.6	5.630	224.3
3303901	LESLIE	HYDEN	2004	2,052.8	7.919	259.2
3303902	LESLIE	WOOTON	2000	1,394.7	5.869	237.7
3303902	LESLIE	WOOTON	2001	1,474.4	4.633	318.2
3303902	LESLIE	WOOTON	2002	1,335.8	4.641	287.9
3303902	LESLIE	WOOTON	2003	1,666.9	6.722	248.0
3303902	LESLIE	WOOTON	2004	958.4	3.258	294.2
3303903	LESLIE	HALSFORK	2000	2,002.3	4.531	441.9
3303903	LESLIE	HALSFORK	2001	486.8	2.901	167.8
3303903	LESLIE	HALSFORK	2002	2,101.6	6.214	338.2
3303903	LESLIE	HALSFORK	2003	827.0	4.281	193.2
3303903	LESLIE	HALSFORK	2004	1,517.0	5.003	303.2
3307301	BULAN	ARY-HEINE	2000	378.0	1.334	283.3
3307301	BULAN	ARY-HEINE	2001	738.2	2.031	363.5
3307301	BULAN	ARY-HEINE	2002	1,801.9	8.240	218.7
3307301	BULAN	ARY-HEINE	2003	662.5	3.566	185.8
3307301	BULAN	ARY-HEINE	2004	710.6	4.589	154.8
3307302	BULAN	AJAX-DWAR	2000	499.1	0.800	624.1
3307302	BULAN	AJAX-DWAR	2001	672.7	2.283	294.7
3307302	BULAN	AJAX-DWAR	2002	1,498.7	3.261	459.6
3307302	BULAN	AJAX-DWAR	2003	554.1	2.451	226.0
3307302	BULAN	AJAX-DWAR	2004	740.8	5.046	146.8
3307303	BULAN	LOTTSCREE	2000	2.8	0.020	140.5
3307303	BULAN	LOTTSCREE	2001	76.3	0.332	230.0
3307303	BULAN	LOTTSCREE	2002	1.8	0.033	55.0
3307303	BULAN	LOTTSCREE	2003	0.0	0.000	0.0
3307303	BULAN	LOTTSCREE	2004	0.0	0.000	0.0
3308001	JACKSON	S.JACKSON	2000	114.8	0.357	321.6
3308001	JACKSON	S.JACKSON	2001	371.2	1.547	240.0
3308001	JACKSON	S.JACKSON	2002	196.5	1.439	136.5
3308001	JACKSON	S.JACKSON	2003	192.4	1.805	106.6

3308001	JACKSON	S.JACKSON	2004	346.0	0.761	454.7
3308002	JACKSON	PANBOWL	2000	117.2	0.447	262.0
3308002	JACKSON	PANBOWL	2001	157.7	0.799	197.4
3308002	JACKSON	PANBOWL	2002	492.7	2.592	190.1
3308002	JACKSON	PANBOWL	2003	543.7	2.237	243.1
3308002	JACKSON	PANBOWL	2004	394.4	1.709	230.8
3308401	BECKHAM	HINDMAN	2000	523.4	1.853	282.4
3308401	BECKHAM	HINDMAN	2001	1,019.2	3.033	336.1
3308401	BECKHAM	HINDMAN	2002	756.0	2.829	267.3
3308401	BECKHAM	HINDMAN	2003	612.6	3.406	179.9
3308401	BECKHAM	HINDMAN	2004	1,164.1	7.089	164.2
3308402	BECKHAM	CARRSFORK	2000	157.0	0.697	225.1
3308402	BECKHAM	CARRSFORK	2001	160.9	0.584	275.4
3308402	BECKHAM	CARRSFORK	2002	401.3	2.342	171.3
3308402	BECKHAM	CARRSFORK	2003	1,117.4	5.106	218.8
3308402	BECKHAM	CARRSFORK	2004	315.0	1.594	197.6
3308502	BONNYMAN	HAZARD	2000	335.9	2.143	156.7
3308502	BONNYMAN	HAZARD	2001	1,030.1	4.093	251.7
3308502	BONNYMAN	HAZARD	2002	403.9	2.388	169.2
3308502	BONNYMAN	HAZARD	2003	281.4	1.874	150.2
3308502	BONNYMAN	HAZARD	2004	483.4	2.051	235.7
3308503	BONNYMAN	BIGCREEK	2000	334.5	1.866	179.3
3308503	BONNYMAN	BIGCREEK	2001	740.7	5.022	147.5
3308503	BONNYMAN	BIGCREEK	2002	1,138.5	6.024	189.0
3308503	BONNYMAN	BIGCREEK	2003	432.1	2.647	163.3
3308503	BONNYMAN	BIGCREEK	2004	534.3	2.292	233.1
3308601	COLLIER	UPPERROCK	2000	856.9	3.049	281.1
3308601	COLLIER	UPPERROCK	2001	270.1	1.531	176.4
3308601	COLLIER	UPPERROCK	2002	1,096.7	5.736	191.2
3308601	COLLIER	UPPERROCK	2003	492.3	2.101	234.3
3308601	COLLIER	UPPERROCK	2004	555.6	3.759	147.8
3308602	COLLIER	LOWERROCK	2000	397.0	3.125	127.1
3308602	COLLIER	LOWERROCK	2001	486.6	1.890	257.4
3308602	COLLIER	LOWERROCK	2002	292.4	3.376	86.6
3308602	COLLIER	LOWERROCK	2003	603.3	3.238	186.3
3308602	COLLIER	LOWERROCK	2004	567.1	4.796	118.2
3308603	COLLIER	SMOOTCR	2000	1,137.1	4.747	239.5
3308603	COLLIER	SMOOTCR	2001	433.0	2.428	178.3
3308603	COLLIER	SMOOTCR	2002	331.6	0.794	417.5
3308603	COLLIER	SMOOTCR	2003	333.7	1.508	221.4
3308603	COLLIER	SMOOTCR	2004	568.7	2.294	247.9
3309001	JEFF	VIPER	2000	14.1	0.085	166.9
3309001	JEFF	VIPER	2001	1,052.0	3.734	281.7
3309001	JEFF	VIPER	2002	1,186.4	4.379	270.9
3309001	JEFF	VIPER	2003	883.1	4.632	190.7
3309001	JEFF	VIPER	2004	2,062.1	6.220	331.5
3309002	JEFF	JEFF	2000	6.1	0.043	140.0
3309002	JEFF	JEFF	2001	80.0	0.391	204.5
3309002	JEFF	JEFF	2002	600.4	1.257	477.6
3309002	JEFF	JEFF	2003	0.3	0.014	22.0
3309002	JEFF	JEFF	2004	10.1	0.071	141.0
3309101	WHITESBUR	WHITESBUR	2000	118.5	0.584	203.0

3309101	WHITESBUR	WHITESBUR	2001	399.2	1.893	210.9
3309101	WHITESBUR	WHITESBUR	2002	3.9	0.010	370.8
3309101	WHITESBUR	WHITESBUR	2003	2,949.5	4.820	611.9
3309101	WHITESBUR	WHITESBUR	2004	13.6	0.072	188.2
3309102	WHITESBUR	HOSPITAL	2000	13.3	0.081	163.3
3309102	WHITESBUR	HOSPITAL	2001	0.0	0.000	0.0
3309102	WHITESBUR	HOSPITAL	2002	0.0	0.000	0.0
3309102	WHITESBUR	HOSPITAL	2003	100.3	1.026	97.8
3309102	WHITESBUR	HOSPITAL	2004	0.0	0.000	0.0
3309103	WHITESBUR	COWAN	2000	229.7	1.018	225.7
3309103	WHITESBUR	COWAN	2001	800.8	1.742	459.7
3309103	WHITESBUR	COWAN	2002	1,004.1	2.479	405.1
3309103	WHITESBUR	COWAN	2003	1,338.2	4.088	327.3
3309103	WHITESBUR	COWAN	2004	1,181.8	3.313	356.7
3309104	WHITESBUR	CRAFTS COLLEY	2000	23.4	0.182	128.7
3309104	WHITESBUR	CRAFTS COLLEY	2001	330.0	1.613	204.6
3309104	WHITESBUR	CRAFTS COLLEY	2002	1,965.7	4.504	436.5
3309104	WHITESBUR	CRAFTS COLLEY	2003	329.3	1.791	183.9
3309104	WHITESBUR	CRAFTS COLLEY	2004	462.9	1.681	275.5
3309301	VICCO	REDFOX	2000	198.9	1.042	190.9
3309301	VICCO	REDFOX	2001	439.8	2.045	215.1
3309301	VICCO	REDFOX	2002	439.4	3.196	137.5
3309301	VICCO	REDFOX	2003	416.3	3.037	137.1
3309301	VICCO	REDFOX	2004	308.9	1.377	224.4
3309302	VICCO	JEFF	2000	104.2	0.325	320.8
3309302	VICCO	JEFF	2001	726.5	2.599	279.6
3309302	VICCO	JEFF	2002	570.8	3.785	150.8
3309302	VICCO	JEFF	2003	962.0	6.734	142.9
3309302	VICCO	JEFF	2004	319.6	2.189	146.0
3309901	SLEMP	DEFEATED CREEK	2000	197.4	1.490	132.5
3309901	SLEMP	DEFEATED CREEK	2001	1,084.0	2.541	426.6
3309901	SLEMP	DEFEATED CREEK	2002	312.4	1.028	303.9
3309901	SLEMP	DEFEATED CREEK	2003	1,498.4	4.000	374.6
3309901	SLEMP	DEFEATED CREEK	2004	381.3	1.972	193.3
3309902	SLEMP	LEATHERWOOD	2000	487.5	1.929	252.8
3309902	SLEMP	LEATHERWOOD	2001	1,216.3	4.655	261.3
3309902	SLEMP	LEATHERWOOD	2002	382.3	1.439	265.7
3309902	SLEMP	LEATHERWOOD	2003	356.9	2.187	163.2
3309902	SLEMP	LEATHERWOOD	2004	667.2	3.587	186.0
3309903	SLEMP	BEECH FORK	2000	225.0	2.000	112.5
3309903	SLEMP	BEECH FORK	2001	0.0	0.000	0.0
3309903	SLEMP	BEECH FORK	2002	0.0	0.000	0.0
3309903	SLEMP	BEECH FORK	2003	0.0	0.000	0.0
3309903	SLEMP	BEECH FORK	2004	283.0	2.000	141.5
3309904	SLEMP	ROYAL DIAMOND	2000	140.0	1.000	140.0
3309904	SLEMP	ROYAL DIAMOND	2001	221.0	1.000	221.0
3309904	SLEMP	ROYAL DIAMOND	2002	0.0	0.000	0.0
3309904	SLEMP	ROYAL DIAMOND	2003	68.0	0.333	204.0
3309904	SLEMP	ROYAL DIAMOND	2004	0.0	0.000	0.0
3310501	HADDIX	QUICKSAND	2000	1,609.7	5.265	305.8
3310501	HADDIX	QUICKSAND	2001	935.6	2.767	338.1
3310501	HADDIX	QUICKSAND	2002	2,274.4	6.731	337.9

3310501	HADDIX	QUICKSAND	2003	906.6	4.178	217.0
3310501	HADDIX	QUICKSAND	2004	503.8	3.150	159.9
3310502	HADDIX	CANOE	2000	477.9	1.778	268.8
3310502	HADDIX	CANOE	2001	1,628.6	4.401	370.1
3310502	HADDIX	CANOE	2002	2,010.9	7.623	263.8
3310502	HADDIX	CANOE	2003	533.1	3.184	167.4
3310502	HADDIX	CANOE	2004	2,060.5	5.898	349.3
3311101	STINNETT	REDBIRD	2000	1,422.9	4.720	301.5
3311101	STINNETT	REDBIRD	2001	1,125.4	4.079	275.9
3311101	STINNETT	REDBIRD	2002	1,394.0	6.461	215.7
3311101	STINNETT	REDBIRD	2003	1,096.0	4.946	221.6
3311101	STINNETT	REDBIRD	2004	1,890.4	10.042	188.2
3311102	STINNETT	BEECHFK	2000	549.0	1.000	549.0
3311102	STINNETT	BEECHFK	2001	0.0	0.000	0.0
3311102	STINNETT	BEECHFK	2002	10.7	0.042	256.0
3311102	STINNETT	BEECHFK	2003	9.8	0.042	236.0
3311102	STINNETT	BEECHFK	2004	66.0	0.417	158.4
3311401	REEDY	DEANE	2000	43.1	0.259	166.1
3311401	REEDY	DEANE	2001	382.3	1.531	249.8
3311401	REEDY	DEANE	2002	404.2	1.348	300.0
3311401	REEDY	DEANE	2003	149.6	0.655	228.5
3311401	REEDY	DEANE	2004	106.0	0.819	129.4
3311701	SHAMROCK	SHAMROCK	2000	0.0	0.000	0.0
3311701	SHAMROCK	SHAMROCK	2001	0.0	0.000	0.0
3311701	SHAMROCK	SHAMROCK	2002	0.0	0.000	0.0
3311701	SHAMROCK	SHAMROCK	2003	2,422.0	2.000	1,211.0
3311701	SHAMROCK	SHAMROCK	2004	3,202.0	1.000	3,202.0
3312201	ENGLE	INDUSTRIAL PARK	2000	639.0	3.000	213.0
3312201	ENGLE	INDUSTRIAL PARK	2001	30.0	1.000	30.0
3312201	ENGLE	INDUSTRIAL PARK	2002	35.6	0.154	231.5
3312201	ENGLE	INDUSTRIAL PARK	2003	14.2	0.154	92.0
3312201	ENGLE	INDUSTRIAL PARK	2004	0.0	0.000	0.0
3312202	ENGLE	GRAPEVINE	2000	830.1	4.356	190.6
3312202	ENGLE	GRAPEVINE	2001	1,131.8	6.476	174.8
3312202	ENGLE	GRAPEVINE	2002	384.1	2.336	164.4
3312202	ENGLE	GRAPEVINE	2003	823.3	2.817	292.2
3312202	ENGLE	GRAPEVINE	2004	473.4	1.727	274.1
3312901	JENKINS	KONA	2000	157.8	0.788	200.1
3312901	JENKINS	KONA	2001	517.8	2.825	183.3
3312901	JENKINS	KONA	2002	27.1	0.194	139.9
3312901	JENKINS	KONA	2003	470.6	2.430	193.7
3312901	JENKINS	KONA	2004	145.3	0.923	157.4
3312902	JENKINS	JENKINS	2000	259.6	1.597	162.6
3312902	JENKINS	JENKINS	2001	48.1	0.259	185.4
3312902	JENKINS	JENKINS	2002	18.1	0.084	216.1
3312902	JENKINS	JENKINS	2003	261.3	2.225	117.4
3312902	JENKINS	JENKINS	2004	347.9	2.969	117.2
3314401	MAYKING	ERMINE	2000	121.5	0.693	175.3
3314401	MAYKING	ERMINE	2001	151.1	1.468	103.0
3314401	MAYKING	ERMINE	2002	558.2	3.243	172.1
3314401	MAYKING	ERMINE	2003	542.3	1.643	330.0
3314401	MAYKING	ERMINE	2004	192.5	2.183	88.2

3314402	MAYKING	MILLSTONE	2000	36.7	0.297	123.7
3314402	MAYKING	MILLSTONE	2001	370.9	1.496	247.9
3314402	MAYKING	MILLSTONE	2002	1,242.9	3.722	334.0
3314402	MAYKING	MILLSTONE	2003	609.8	1.687	361.5
3314402	MAYKING	MILLSTONE	2004	233.6	1.713	136.4
3400101	ALLEN	DISTRIBUTION	2000	36.6	0.132	277.0
3400101	ALLEN	DISTRIBUTION	2001	83.5	0.592	141.1
3400101	ALLEN	DISTRIBUTION	2002	6.8	0.055	122.6
3400101	ALLEN	DISTRIBUTION	2003	69.2	1.365	50.7
3400101	ALLEN	DISTRIBUTION	2004	107.9	0.690	156.4
3400301	BETSYLAYN	MUDCREEK	2000	273.8	1.148	238.5
3400301	BETSYLAYN	MUDCREEK	2001	1,034.9	3.540	292.3
3400301	BETSYLAYN	MUDCREEK	2002	551.2	3.143	175.4
3400301	BETSYLAYN	MUDCREEK	2003	314.4	1.719	182.9
3400301	BETSYLAYN	MUDCREEK	2004	745.9	2.257	330.5
3400302	BETSYLAYN	TRAM	2000	36.1	0.243	148.8
3400302	BETSYLAYN	TRAM	2001	64.5	0.559	115.5
3400302	BETSYLAYN	TRAM	2002	396.8	2.387	166.3
3400302	BETSYLAYN	TRAM	2003	261.3	1.611	162.2
3400302	BETSYLAYN	TRAM	2004	391.5	1.888	207.3
3400303	BETSYLAYN	HAROLD	2000	195.2	0.914	213.6
3400303	BETSYLAYN	HAROLD	2001	118.4	0.704	168.2
3400303	BETSYLAYN	HAROLD	2002	213.8	0.862	248.2
3400303	BETSYLAYN	HAROLD	2003	111.7	0.833	134.1
3400303	BETSYLAYN	HAROLD	2004	66.1	0.454	145.8
3400401	BIGCREEK	DISTRIBUTION	2000	570.0	1.000	570.0
3400401	BIGCREEK	DISTRIBUTION	2001	0.0	0.000	0.0
3400401	BIGCREEK	DISTRIBUTION	2002	0.0	0.000	0.0
3400401	BIGCREEK	DISTRIBUTION	2003	0.0	0.000	0.0
3400401	BIGCREEK	DISTRIBUTION	2004	0.0	0.000	0.0
3400601	BURTON	LIGON-CLE	2000	160.3	1.136	141.1
3400601	BURTON	LIGON-CLE	2001	565.8	1.529	370.0
3400601	BURTON	LIGON-CLE	2002	122.7	0.373	328.6
3400601	BURTON	LIGON-CLE	2003	85.2	0.494	172.5
3400601	BURTON	LIGON-CLE	2004	230.8	0.646	357.2
3400602	BURTON	WHEELWRIG	2000	101.5	0.948	107.0
3400602	BURTON	WHEELWRIG	2001	422.1	0.719	587.1
3400602	BURTON	WHEELWRIG	2002	245.2	0.918	267.0
3400602	BURTON	WHEELWRIG	2003	179.5	1.089	164.9
3400602	BURTON	WHEELWRIG	2004	207.1	1.100	188.2
3400701	DRAFFIN	BELCHER	2000	46.2	0.202	228.4
3400701	DRAFFIN	BELCHER	2001	13.3	0.069	193.6
3400701	DRAFFIN	BELCHER	2002	100.2	1.780	56.3
3400701	DRAFFIN	BELCHER	2003	156.9	2.379	65.9
3400701	DRAFFIN	BELCHER	2004	171.7	0.505	340.0
3400702	DRAFFIN	YELLOWHIL	2000	66.3	0.418	158.5
3400702	DRAFFIN	YELLOWHIL	2001	67.6	0.247	273.7
3400702	DRAFFIN	YELLOWHIL	2002	362.2	3.123	116.0
3400702	DRAFFIN	YELLOWHIL	2003	306.5	1.845	166.1
3400702	DRAFFIN	YELLOWHIL	2004	845.5	4.098	206.3
3400901	ELKHORNCI	CITY	2000	167.9	0.669	251.0
3400901	ELKHORNCI	CITY	2001	20.7	0.187	110.7

3400901	ELKHORNCI	CITY	2002	29.6	0.388	76.3
3400901	ELKHORNCI	CITY	2003	733.1	3.228	227.1
3400901	ELKHORNCI	CITY	2004	639.7	5.718	111.9
3400902	ELKHORNCI	GRASSY	2000	355.2	0.806	440.4
3400902	ELKHORNCI	GRASSY	2001	0.0	0.000	0.0
3400902	ELKHORNCI	GRASSY	2002	260.9	1.292	202.0
3400902	ELKHORNCI	GRASSY	2003	48.2	0.313	154.3
3400902	ELKHORNCI	GRASSY	2004	1,137.0	4.292	264.9
3401001	ELWOOD	DORTON	2000	537.4	3.738	143.7
3401001	ELWOOD	DORTON	2001	1,793.0	6.342	282.7
3401001	ELWOOD	DORTON	2002	536.8	5.181	103.6
3401001	ELWOOD	DORTON	2003	749.4	3.885	192.9
3401001	ELWOOD	DORTON	2004	2,134.1	5.126	416.4
3401002	ELWOOD	VIRGIE-IN	2000	629.2	2.346	268.1
3401002	ELWOOD	VIRGIE-IN	2001	351.6	1.763	199.4
3401002	ELWOOD	VIRGIE-IN	2002	150.3	0.791	190.1
3401002	ELWOOD	VIRGIE-IN	2003	397.8	1.943	204.7
3401002	ELWOOD	VIRGIE-IN	2004	374.4	1.714	218.4
3401101	FALCON	FALC-OILS	2000	206.1	0.835	247.0
3401101	FALCON	FALC-OILS	2001	576.1	2.477	232.6
3401101	FALCON	FALC-OILS	2002	1,169.8	3.714	315.0
3401101	FALCON	FALC-OILS	2003	88.4	0.731	121.0
3401101	FALCON	FALC-OILS	2004	519.5	3.052	170.2
3401102	FALCON	SALYERSVI	2000	43.0	0.318	135.4
3401102	FALCON	SALYERSVI	2001	348.2	2.428	143.4
3401102	FALCON	SALYERSVI	2002	32.4	0.292	111.1
3401102	FALCON	SALYERSVI	2003	162.1	0.847	191.2
3401102	FALCON	SALYERSVI	2004	128.2	0.664	193.2
3401103	FALCON	BURNINGFK	2000	185.7	1.051	176.6
3401103	FALCON	BURNINGFK	2001	327.4	1.763	185.8
3401103	FALCON	BURNINGFK	2002	278.3	2.133	130.5
3401103	FALCON	BURNINGFK	2003	125.8	0.670	187.8
3401103	FALCON	BURNINGFK	2004	197.1	0.951	207.3
3401104	FALCON	PARKWAY	2000	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2001	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2002	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2003	0.0	0.000	0.0
3401104	FALCON	PARKWAY	2004	0.0	0.000	0.0
3401301	FLEMING	NEON	2000	24.4	0.084	289.7
3401301	FLEMING	NEON	2001	198.4	0.503	394.4
3401301	FLEMING	NEON	2002	196.4	0.948	207.2
3401301	FLEMING	NEON	2003	171.8	0.666	258.0
3401301	FLEMING	NEON	2004	124.2	0.965	128.8
3401302	FLEMING	MCRROBERTS	2000	511.4	3.302	154.9
3401302	FLEMING	MCRROBERTS	2001	569.1	3.821	148.9
3401302	FLEMING	MCRROBERTS	2002	585.3	2.254	259.7
3401302	FLEMING	MCRROBERTS	2003	400.3	4.450	90.0
3401302	FLEMING	MCRROBERTS	2004	347.4	1.267	274.1
3401702	HENRYCLAY	REGINA	2000	747.9	5.816	128.6
3401702	HENRYCLAY	REGINA	2001	785.4	4.275	183.7
3401702	HENRYCLAY	REGINA	2002	573.1	3.351	171.0
3401702	HENRYCLAY	REGINA	2003	217.2	1.409	154.2

3401702	HENRYCLAY	REGINA	2004	417.9	3.007	139.0
3401703	HENRYCLAY	ASHCAMP	2000	498.8	2.456	203.1
3401703	HENRYCLAY	ASHCAMP	2001	497.2	2.152	231.0
3401703	HENRYCLAY	ASHCAMP	2002	106.4	1.025	103.7
3401703	HENRYCLAY	ASHCAMP	2003	468.0	2.402	194.8
3401703	HENRYCLAY	ASHCAMP	2004	310.6	1.305	238.1
3401801	INDEX	DISTRIBUTION	2000	200.8	1.078	186.3
3401801	INDEX	DISTRIBUTION	2001	697.3	2.095	332.9
3401801	INDEX	DISTRIBUTION	2002	324.6	2.010	161.5
3401801	INDEX	DISTRIBUTION	2003	113.0	0.629	179.6
3401801	INDEX	DISTRIBUTION	2004	1,189.2	6.372	186.6
3401802	INDEX	HOSPITAL	2000	513.3	3.245	158.2
3401802	INDEX	HOSPITAL	2001	866.3	3.407	254.3
3401802	INDEX	HOSPITAL	2002	158.1	0.660	239.5
3401802	INDEX	HOSPITAL	2003	75.2	0.946	79.5
3401802	INDEX	HOSPITAL	2004	274.8	2.336	117.7
3402001	KEYSER	MULLINS	2000	13.3	0.111	120.0
3402001	KEYSER	MULLINS	2001	228.4	1.927	118.6
3402001	KEYSER	MULLINS	2002	36.4	0.395	92.0
3402001	KEYSER	MULLINS	2003	312.9	1.414	221.4
3402001	KEYSER	MULLINS	2004	74.0	1.204	61.4
3402002	KEYSER	STONECOAL	2000	53.2	0.275	193.4
3402002	KEYSER	STONECOAL	2001	19.5	0.131	148.2
3402002	KEYSER	STONECOAL	2002	118.1	0.449	262.9
3402002	KEYSER	STONECOAL	2003	222.2	1.466	151.5
3402002	KEYSER	STONECOAL	2004	246.4	1.631	151.0
3402202	MCKINNEY	GIBSON	2000	361.9	2.945	122.9
3402202	MCKINNEY	GIBSON	2001	506.9	3.357	151.0
3402202	MCKINNEY	GIBSON	2002	267.1	4.749	56.2
3402202	MCKINNEY	GIBSON	2003	564.6	3.251	173.7
3402202	MCKINNEY	GIBSON	2004	349.1	1.232	283.3
3402204	MCKINNEY	MAYTOWN	2000	54.0	1.076	50.2
3402204	MCKINNEY	MAYTOWN	2001	278.3	2.689	103.5
3402204	MCKINNEY	MAYTOWN	2002	93.7	0.692	135.4
3402204	MCKINNEY	MAYTOWN	2003	526.3	3.122	168.5
3402204	MCKINNEY	MAYTOWN	2004	272.1	2.233	121.9
3402501	MIDDLECRE	DISTRIBUTION	2000	94.3	1.006	93.7
3402501	MIDDLECRE	DISTRIBUTION	2001	82.8	0.877	94.4
3402501	MIDDLECRE	DISTRIBUTION	2002	4.8	0.031	155.0
3402501	MIDDLECRE	DISTRIBUTION	2003	272.8	1.287	212.0
3402501	MIDDLECRE	DISTRIBUTION	2004	44.2	0.109	407.4
3402801	PAINTSVIL	CITY	2000	15.9	0.123	129.8
3402801	PAINTSVIL	CITY	2001	102.0	1.165	87.6
3402801	PAINTSVIL	CITY	2002	156.5	1.815	86.2
3402801	PAINTSVIL	CITY	2003	161.4	1.150	140.3
3402801	PAINTSVIL	CITY	2004	52.5	0.439	119.6
3402802	PAINTSVIL	NIPPA	2000	491.1	2.934	167.4
3402802	PAINTSVIL	NIPPA	2001	0.0	0.000	0.0
3402802	PAINTSVIL	NIPPA	2002	29.3	0.183	159.7
3402802	PAINTSVIL	NIPPA	2003	133.7	1.070	125.0
3402802	PAINTSVIL	NIPPA	2004	99.5	0.903	110.2
3403001	PIKEVILLE	CITY	2000	297.6	1.804	165.0

3403001	PIKEVILLE	CITY	2001	41.7	0.252	165.7
3403001	PIKEVILLE	CITY	2002	123.6	0.425	290.6
3403001	PIKEVILLE	CITY	2003	85.5	1.105	77.4
3403001	PIKEVILLE	CITY	2004	203.0	0.737	275.2
3403002	PIKEVILLE	MAINST	2000	40.4	0.303	133.2
3403002	PIKEVILLE	MAINST	2001	105.0	1.567	67.0
3403002	PIKEVILLE	MAINST	2002	24.8	0.156	159.1
3403002	PIKEVILLE	MAINST	2003	23.9	0.261	91.6
3403002	PIKEVILLE	MAINST	2004	20.3	0.208	97.3
3403003	PIKEVILLE	CEDAR CREEK	2000	15.6	0.198	78.8
3403003	PIKEVILLE	CEDAR CREEK	2001	91.4	0.317	288.2
3403003	PIKEVILLE	CEDAR CREEK	2002	170.9	1.016	168.2
3403003	PIKEVILLE	CEDAR CREEK	2003	177.0	1.908	92.8
3403003	PIKEVILLE	CEDAR CREEK	2004	264.4	2.897	91.3
3403201	BEAVERCRE	DISTRIBUTION	2000	170.9	0.777	220.0
3403201	BEAVERCRE	DISTRIBUTION	2001	1,210.7	2.559	473.1
3403201	BEAVERCRE	DISTRIBUTION	2002	200.2	0.688	291.1
3403201	BEAVERCRE	DISTRIBUTION	2003	1,284.9	3.568	360.2
3403201	BEAVERCRE	DISTRIBUTION	2004	428.2	2.143	199.8
3403301	PRESTONSB	CITY	2000	6.1	0.027	222.9
3403301	PRESTONSB	CITY	2001	153.9	1.271	121.1
3403301	PRESTONSB	CITY	2002	173.8	0.845	205.7
3403301	PRESTONSB	CITY	2003	583.3	2.159	270.1
3403301	PRESTONSB	CITY	2004	53.2	1.097	48.5
3403302	PRESTONSB	UNIVERSIT	2000	267.0	1.099	243.0
3403302	PRESTONSB	UNIVERSIT	2001	5.6	0.073	76.5
3403302	PRESTONSB	UNIVERSIT	2002	59.3	0.208	285.0
3403302	PRESTONSB	UNIVERSIT	2003	97.7	0.575	169.8
3403302	PRESTONSB	UNIVERSIT	2004	265.2	1.605	165.2
3403701	RUSSELLFO	LITTLEBEA	2000	56.4	0.249	226.1
3403701	RUSSELLFO	LITTLEBEA	2001	15.3	0.084	182.1
3403701	RUSSELLFO	LITTLEBEA	2002	396.1	1.353	292.7
3403701	RUSSELLFO	LITTLEBEA	2003	771.2	2.872	268.5
3403701	RUSSELLFO	LITTLEBEA	2004	820.4	5.045	162.6
3403801	SECONDFOR	DISTRIBUTION	2000	157.2	1.167	134.7
3403801	SECONDFOR	DISTRIBUTION	2001	1,264.8	3.667	345.0
3403801	SECONDFOR	DISTRIBUTION	2002	43.2	0.267	162.0
3403801	SECONDFOR	DISTRIBUTION	2003	414.3	2.067	200.5
3403801	SECONDFOR	DISTRIBUTION	2004	7.5	0.067	113.0
3404002	SPRINGFOR	1PHASEDIS	2000	13.2	0.073	180.0
3404002	SPRINGFOR	1PHASEDIS	2001	344.2	1.683	204.5
3404002	SPRINGFOR	1PHASEDIS	2002	1,909.0	3.333	572.7
3404002	SPRINGFOR	1PHASEDIS	2003	2,278.0	4.500	506.2
3404002	SPRINGFOR	1PHASEDIS	2004	1,118.3	2.633	424.7
3404301	SIDNEY	BIGCREEK	2000	82.4	0.482	171.1
3404301	SIDNEY	BIGCREEK	2001	80.0	0.581	137.7
3404301	SIDNEY	BIGCREEK	2002	165.6	0.763	216.9
3404301	SIDNEY	BIGCREEK	2003	256.0	2.173	117.8
3404301	SIDNEY	BIGCREEK	2004	406.7	0.588	691.8
3404302	SIDNEY	COBURNMTN	2000	73.4	0.442	166.0
3404302	SIDNEY	COBURNMTN	2001	126.4	0.376	336.3
3404302	SIDNEY	COBURNMTN	2002	86.2	0.584	147.6

3404302	SIDNEY	COBURNMTN	2003	346.1	1.980	174.8
3404302	SIDNEY	COBURNMTN	2004	307.4	1.345	228.6
3407101	TOPMOST	DISTRIBUTION	2000	102.4	0.561	182.5
3407101	TOPMOST	DISTRIBUTION	2001	262.8	1.013	259.6
3407101	TOPMOST	DISTRIBUTION	2002	369.3	2.835	130.2
3407101	TOPMOST	DISTRIBUTION	2003	655.0	3.873	169.1
3407101	TOPMOST	DISTRIBUTION	2004	985.1	1.920	513.1
3407102	TOPMOST	STINSONMI	2000	362.4	1.371	264.3
3407102	TOPMOST	STINSONMI	2001	446.7	2.743	162.8
3407102	TOPMOST	STINSONMI	2002	386.7	2.684	144.1
3407102	TOPMOST	STINSONMI	2003	2,097.7	14.561	144.1
3407102	TOPMOST	STINSONMI	2004	55.6	0.316	176.1
3407401	MARTIN	DISTRIBUTION	2000	34.1	0.269	127.1
3407401	MARTIN	DISTRIBUTION	2001	211.8	2.318	91.4
3407401	MARTIN	DISTRIBUTION	2002	322.6	1.661	194.2
3407401	MARTIN	DISTRIBUTION	2003	240.8	1.655	145.5
3407401	MARTIN	DISTRIBUTION	2004	390.9	1.651	236.7
3408101	SALISBURY	DISTRIBUTION	2000	452.0	1.671	270.5
3408101	SALISBURY	DISTRIBUTION	2001	452.1	3.707	122.0
3408101	SALISBURY	DISTRIBUTION	2002	298.8	1.862	160.5
3408101	SALISBURY	DISTRIBUTION	2003	4.3	0.043	100.0
3408101	SALISBURY	DISTRIBUTION	2004	310.0	1.237	250.6
3408102	SALISBURY	EVAN-ELKH	2000	3.5	0.041	85.8
3408102	SALISBURY	EVAN-ELKH	2001	57.7	0.935	61.7
3408102	SALISBURY	EVAN-ELKH	2002	1.6	0.009	167.0
3408102	SALISBURY	EVAN-ELKH	2003	178.3	1.292	138.0
3408102	SALISBURY	EVAN-ELKH	2004	928.9	3.028	306.7
3408301	COLEMAN	COALCO	2000	8,186.0	55.000	148.8
3408301	COLEMAN	COALCO	2001	10,168.0	46.000	221.0
3408301	COLEMAN	COALCO	2002	1,228.0	3.000	409.3
3408301	COLEMAN	COALCO	2003	0.0	0.000	0.0
3408301	COLEMAN	COALCO	2004	0.0	0.000	0.0
3408303	COLEMAN	PETERCRK	2000	36.8	0.196	188.2
3408303	COLEMAN	PETERCRK	2001	0.0	0.000	0.0
3408303	COLEMAN	PETERCRK	2002	934.1	3.945	236.8
3408303	COLEMAN	PETERCRK	2003	564.8	2.182	258.8
3408303	COLEMAN	PETERCRK	2004	583.7	1.952	299.0
3408401	KIMPER	LONGFORK	2000	610.5	2.917	209.3
3408401	KIMPER	LONGFORK	2001	282.2	1.314	214.8
3408401	KIMPER	LONGFORK	2002	467.6	2.342	199.7
3408401	KIMPER	LONGFORK	2003	240.0	1.189	202.0
3408401	KIMPER	LONGFORK	2004	910.7	3.115	292.4
3408402	KIMPER	GRAPEVINE	2000	44.0	0.293	150.2
3408402	KIMPER	GRAPEVINE	2001	940.8	3.770	249.6
3408402	KIMPER	GRAPEVINE	2002	313.5	2.089	150.1
3408402	KIMPER	GRAPEVINE	2003	434.8	2.201	197.6
3408402	KIMPER	GRAPEVINE	2004	2,112.0	6.805	310.3
3409001	W.PAINTSV	PAINTSVIL	2000	49.2	0.775	63.4
3409001	W.PAINTSV	PAINTSVIL	2001	122.3	1.447	84.5
3409001	W.PAINTSV	PAINTSVIL	2002	95.1	0.663	143.5
3409001	W.PAINTSV	PAINTSVIL	2003	37.1	0.145	256.4
3409001	W.PAINTSV	PAINTSVIL	2004	122.3	0.840	145.6

3409002	W.PAINTSV	STAFFORDSVILLE	2000	115.5	0.399	289.4
3409002	W.PAINTSV	STAFFORDSVILLE	2001	60.3	0.256	235.7
3409002	W.PAINTSV	STAFFORDSVILLE	2002	190.7	1.243	153.4
3409002	W.PAINTSV	STAFFORDSVILLE	2003	133.4	1.231	108.4
3409002	W.PAINTSV	STAFFORDSVILLE	2004	539.5	2.701	199.7
3409003	W.PAINTSV	PLAZA	2000	1,200.0	6.000	200.0
3409003	W.PAINTSV	PLAZA	2001	1.3	0.013	95.3
3409003	W.PAINTSV	PLAZA	2002	8.8	0.053	167.1
3409003	W.PAINTSV	PLAZA	2003	56.6	1.213	46.6
3409003	W.PAINTSV	PLAZA	2004	102.4	0.679	150.9
3409301	KENWOOD	WWANLEAR	2000	99.3	0.607	163.4
3409301	KENWOOD	WWANLEAR	2001	48.2	0.370	130.2
3409301	KENWOOD	WWANLEAR	2002	601.2	2.538	236.9
3409301	KENWOOD	WWANLEAR	2003	138.0	0.572	241.5
3409301	KENWOOD	WWANLEAR	2004	310.0	1.328	233.4
3409302	KENWOOD	AUXIER	2000	28.9	0.155	186.5
3409302	KENWOOD	AUXIER	2001	371.7	1.351	275.1
3409302	KENWOOD	AUXIER	2002	859.4	3.662	234.7
3409302	KENWOOD	AUXIER	2003	230.7	1.251	184.3
3409302	KENWOOD	AUXIER	2004	256.7	2.365	108.5
3409303	KENWOOD	HAGERHILL	2000	61.8	0.336	184.1
3409303	KENWOOD	HAGERHILL	2001	762.8	4.086	186.7
3409303	KENWOOD	HAGERHILL	2002	719.3	3.321	216.6
3409303	KENWOOD	HAGERHILL	2003	147.2	0.993	148.2
3409303	KENWOOD	HAGERHILL	2004	1,050.4	3.793	277.0
3409401	FEDSCREEK	FEDSCREEK	2000	7.4	0.042	173.3
3409401	FEDSCREEK	FEDSCREEK	2001	1,018.8	2.893	352.1
3409401	FEDSCREEK	FEDSCREEK	2002	271.0	1.978	137.0
3409401	FEDSCREEK	FEDSCREEK	2003	352.3	1.316	267.7
3409401	FEDSCREEK	FEDSCREEK	2004	1,197.8	7.478	160.2
3409402	FEDSCREEK	LICKCREEK	2000	160.6	0.896	179.3
3409402	FEDSCREEK	LICKCREEK	2001	102.5	0.287	357.5
3409402	FEDSCREEK	LICKCREEK	2002	237.6	1.434	165.7
3409402	FEDSCREEK	LICKCREEK	2003	285.7	1.550	184.4
3409402	FEDSCREEK	LICKCREEK	2004	698.3	3.712	188.2
3409502	BURDINE	LEVISA	2000	193.6	1.106	175.1
3409502	BURDINE	LEVISA	2001	1,025.0	4.003	256.1
3409502	BURDINE	LEVISA	2002	755.3	2.702	279.5
3409502	BURDINE	LEVISA	2003	469.6	2.556	183.7
3409502	BURDINE	LEVISA	2004	461.8	1.831	252.2
3409503	BURDINE	JENKINS/SHELBY GAP	2000	82.4	0.527	156.3
3409503	BURDINE	JENKINS/SHELBY GAP	2001	360.6	2.176	165.7
3409503	BURDINE	JENKINS/SHELBY GAP	2002	383.4	1.922	199.5
3409503	BURDINE	JENKINS/SHELBY GAP	2003	33.8	0.202	167.5
3409503	BURDINE	JENKINS/SHELBY GAP	2004	206.0	0.819	251.7
3410501	S.PIKEVIL	PIKEVILLE	2000	113.1	0.630	179.6
3410501	S.PIKEVIL	PIKEVILLE	2001	31.4	0.154	203.4
3410501	S.PIKEVIL	PIKEVILLE	2002	145.5	0.800	182.0
3410501	S.PIKEVIL	PIKEVILLE	2003	83.1	1.158	71.8
3410501	S.PIKEVIL	PIKEVILLE	2004	684.0	1.581	432.6
3410502	S.PIKEVIL	ISLANDCRE	2000	27.6	0.254	108.7
3410502	S.PIKEVIL	ISLANDCRE	2001	651.2	3.325	195.9

3410502	S.PIKEVIL	ISLANDCRE	2002	274.4	1.558	176.2
3410502	S.PIKEVIL	ISLANDCRE	2003	324.5	1.738	186.7
3410502	S.PIKEVIL	ISLANDCRE	2004	94.2	0.564	167.1
3410503	S.PIKEVIL	HOSPITAL	2000	656.0	2.000	328.0
3410503	S.PIKEVIL	HOSPITAL	2001	0.0	0.000	0.0
3410503	S.PIKEVIL	HOSPITAL	2002	3.9	0.045	86.3
3410503	S.PIKEVIL	HOSPITAL	2003	4.6	0.034	137.5
3410503	S.PIKEVIL	HOSPITAL	2004	2.8	0.022	125.0
3410601	E.PRESTON	PRESTONSB	2000	1.2	0.007	161.0
3410601	E.PRESTON	PRESTONSB	2001	133.2	0.217	613.4
3410601	E.PRESTON	PRESTONSB	2002	265.9	0.795	334.4
3410601	E.PRESTON	PRESTONSB	2003	218.7	1.092	200.4
3410601	E.PRESTON	PRESTONSB	2004	184.2	0.714	257.9
3410602	E.PRESTON	LANCER	2000	3.6	0.039	92.8
3410602	E.PRESTON	LANCER	2001	50.1	0.254	197.2
3410602	E.PRESTON	LANCER	2002	434.9	1.156	376.2
3410602	E.PRESTON	LANCER	2003	619.2	2.426	255.2
3410602	E.PRESTON	LANCER	2004	81.8	0.386	212.0
3411401	DEWEY	INEZ	2000	103.4	0.825	125.4
3411401	DEWEY	INEZ	2001	533.8	3.123	170.9
3411401	DEWEY	INEZ	2002	1,492.3	9.500	157.1
3411401	DEWEY	INEZ	2003	3,127.8	7.503	416.9
3411401	DEWEY	INEZ	2004	591.1	6.502	90.9
3411801	JOHNSCREE	META	2000	706.2	3.609	195.7
3411801	JOHNSCREE	META	2001	2,224.4	7.845	283.6
3411801	JOHNSCREE	META	2002	1,207.6	8.655	139.5
3411801	JOHNSCREE	META	2003	1,032.8	7.387	139.8
3411801	JOHNSCREE	META	2004	1,240.8	6.997	177.3
3411802	JOHNSCREE	RACCOON	2000	45.6	0.448	101.8
3411802	JOHNSCREE	RACCOON	2001	1,091.0	2.474	441.1
3411802	JOHNSCREE	RACCOON	2002	596.5	3.485	171.2
3411802	JOHNSCREE	RACCOON	2003	632.1	2.863	220.7
3411802	JOHNSCREE	RACCOON	2004	1,738.1	5.881	295.5
3411901	FORDSBRAN	SHELBY	2000	28.2	0.097	291.7
3411901	FORDSBRAN	SHELBY	2001	3.0	0.012	255.4
3411901	FORDSBRAN	SHELBY	2002	64.1	1.412	45.4
3411901	FORDSBRAN	SHELBY	2003	84.0	0.537	156.5
3411901	FORDSBRAN	SHELBY	2004	473.5	4.691	100.9
3411902	FORDSBRAN	ROBINSONC	2000	429.4	2.254	190.5
3411902	FORDSBRAN	ROBINSONC	2001	763.4	2.222	343.5
3411902	FORDSBRAN	ROBINSONC	2002	47.1	0.333	141.4
3411902	FORDSBRAN	ROBINSONC	2003	477.8	1.823	262.2
3411902	FORDSBRAN	ROBINSONC	2004	1,636.3	5.069	322.8
3412901	WEEKSBURY	DISTRIBUTION	2000	759.0	1.969	385.5
3412901	WEEKSBURY	DISTRIBUTION	2001	179.4	0.635	282.5
3412901	WEEKSBURY	DISTRIBUTION	2002	494.1	2.725	181.3
3412901	WEEKSBURY	DISTRIBUTION	2003	1,262.5	4.563	276.7
3412901	WEEKSBURY	DISTRIBUTION	2004	299.9	1.370	218.9
3413401	GARRETT	GARRETT	2000	137.6	0.566	243.3
3413401	GARRETT	GARRETT	2001	518.5	2.111	245.6
3413401	GARRETT	GARRETT	2002	276.6	1.695	163.2
3413401	GARRETT	GARRETT	2003	1,307.7	4.096	319.3

3413401	GARRETT	GARRETT	2004	1,791.9	7.692	233.0
3413402	GARRETT	LACKEY	2003	25.5	0.108	236.7
3413402	GARRETT	LACKEY	2004	395.2	2.319	170.5
3414501	CONSOLIDATE COAL	COAL COMPANY	2000	0.0	0.000	0.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2001	0.0	0.000	0.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2002	0.0	0.000	0.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2003	35.0	1.000	35.0
3414501	CONSOLIDATE COAL	COAL COMPANY	2004	0.0	0.000	0.0
3414901	FISHTRAP	DISTRIBUTION	2000	140.0	0.275	509.2
3414901	FISHTRAP	DISTRIBUTION	2001	20.7	0.100	207.0
3414901	FISHTRAP	DISTRIBUTION	2002	0.0	0.000	0.0
3414901	FISHTRAP	DISTRIBUTION	2003	128.6	0.400	321.5
3414901	FISHTRAP	DISTRIBUTION	2004	417.0	2.200	189.5
3417601	NEW CAMP	SOUTH SIDE	2001	1.2	0.015	77.1
3417601	NEW CAMP	SOUTH SIDE	2002	12.3	0.539	22.7
3417601	NEW CAMP	SOUTH SIDE	2003	90.5	1.171	77.3
3417601	NEW CAMP	SOUTH SIDE	2004	658.3	2.763	238.2
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2001	124.4	1.087	114.5
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2002	161.1	0.871	184.9
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2003	225.8	1.579	143.0
3417602	NEW CAMP	APPAL. REG. HOSPITAL	2004	357.2	1.974	180.9
3451201	BEEFHIDE	BEEFHIDE	2000	25.0	0.167	150.0
3451201	BEEFHIDE	BEEFHIDE	2001	0.0	0.000	0.0
3451201	BEEFHIDE	BEEFHIDE	2002	677.3	2.667	254.0
3451201	BEEFHIDE	BEEFHIDE	2003	72.7	0.333	218.0
3451201	BEEFHIDE	BEEFHIDE	2004	253.5	0.167	1,521.0
3451202	BEEFHIDE	DUNHAM	2000	110.0	0.464	236.9
3451202	BEEFHIDE	DUNHAM	2001	533.9	1.683	317.2
3451202	BEEFHIDE	DUNHAM	2002	165.1	0.841	196.3
3451202	BEEFHIDE	DUNHAM	2003	562.7	3.062	183.8
3451202	BEEFHIDE	DUNHAM	2004	159.2	1.256	126.7

### Outage Frequency by Cause

Cause	No Exclusions			Exclude IEEE MEDs		
	% of Count	% of SAIFI	% of SAIDI	% of Count	% of SAIFI	% of SAIDI
Animal	5.5%	1.4%	0.6%	6.1%	1.8%	1.2%
Blast/Explosion	0.0%	0.5%	0.3%	0.0%	0.6%	0.7%
Contamination/Flashover	0.2%	0.6%	0.5%	0.2%	0.5%	0.7%
Customer Equipment	0.3%	0.3%	0.2%	0.3%	0.2%	0.1%
Equipment Failure	19.4%	14.2%	7.6%	21.2%	16.7%	14.3%
Error - Field	0.6%	1.8%	0.4%	0.6%	2.2%	0.8%
Error - Operations	0.0%	0.2%	0.0%	0.0%	0.2%	0.0%
Fire	0.4%	0.1%	0.1%	0.4%	0.1%	0.1%
Foreign Object	0.1%	0.2%	0.1%	0.2%	0.2%	0.2%
Other	2.5%	1.7%	0.6%	2.8%	2.0%	1.0%
Other Utility	0.2%	0.3%	0.1%	0.2%	0.4%	0.1%
Overload	2.0%	2.0%	1.6%	2.3%	2.4%	3.5%
Scheduled	3.6%	4.2%	1.3%	4.0%	5.2%	2.9%
Station	0.2%	2.0%	0.6%	0.2%	2.4%	1.2%
Transmission	0.5%	5.1%	3.7%	0.4%	4.9%	2.9%
Tree Inside RoW	33.3%	28.2%	33.5%	31.9%	26.0%	31.4%
Tree Outside RoW	12.4%	17.6%	24.2%	11.4%	14.9%	19.2%
Tree Removal	2.2%	2.1%	1.5%	2.3%	2.4%	2.4%
UG Construction / Dig-In	0.2%	0.0%	0.0%	0.2%	0.0%	0.0%
Unknown (non-weather)	2.3%	2.6%	0.6%	2.5%	3.1%	1.4%
Vandalism	0.3%	0.3%	0.1%	0.4%	0.3%	0.3%
Vehicle Accident	2.1%	4.2%	2.3%	2.3%	5.0%	3.9%
Weather - Flood/Slide	0.9%	1.1%	1.4%	0.8%	0.7%	1.0%
Weather - High Winds	1.6%	1.5%	2.8%	0.8%	1.1%	1.2%
Weather - Ice	3.2%	1.9%	12.6%	2.3%	0.5%	3.9%
Weather - Lightning	5.4%	4.6%	2.5%	5.5%	5.0%	4.7%
Weather - Tornado	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Weather - Unknown	0.8%	1.2%	1.0%	0.8%	1.0%	0.6%



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide the yearly SAIDI and SAIFI, including major outages, by feeder for each distribution substation on your system for the last 5 years. Explain how you define major outages.

**RESPONSE**

Please see the Company's response to Item No. 26.

Kentucky Power is utilizing the major event day methodology that is outlined in IEEE STD 1366 - 2003, IEEE Guide for Electric Power Distribution Reliability Indices as its "major outage" definition for this response. The IEEE methodology outlines a method to essentially classify "major event days". This is a statistical method applied to the system (Kentucky Power) historical daily SAIDI values. The method results in a daily SAIDI threshold so that days exceeding the threshold are classified as "major event days". Kentucky Power has not used this methodology in the past when reporting reliability indices to the KPSC. It is applicable in this case because so much historical information is requested for trending.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

What is an acceptable value for SAIDI and SAIFI? Explain how it was derived.

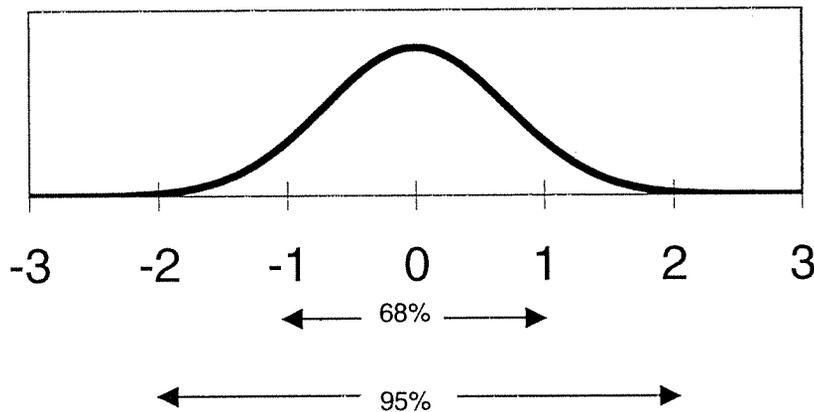
**RESPONSE**

Please see the attached pages.

In order to objectively establish reliability performance values, Kentucky Power believes that historic performance coupled with statistical methods is the soundest approach. Through use of the average and standard deviation statistics, an accurate representation of Kentucky Power's reliability performance can be developed for determining acceptable values.

These statistics characterize two key aspects of reliability performance – the central tendency or middle point of the reliability data (mean/average) and the variability of the values in the data set (standard deviation). Standard deviation can be viewed as how "spread out" from the average or mean the values are in the data set.

For a theoretical distribution of reliability values, that are plotted to form a bell shaped curve, 1 standard deviation above and below the mean will encompass about 68% of the values and 2 standard deviations will encompass 95% of the values. The following illustrates this concept:



Kentucky Power believes that utilizing the average and standard deviation statistics to quantify acceptable SAIFI and SAIDI values is an objective and reasonable approach. Intrinsic to this method are key operational considerations:

- Use of historic values provides a performance benchmark "norm" for Kentucky Power customers.
- Use of Kentucky Powers' historic reliability values incorporates variables that are otherwise difficult to quantify which include accessibility, weather fluctuations, vegetation density, age of facilities, etc.

Major events can result in significant fluctuations from year to year in the SAIFI and SAIDI values due to the nature and severity of the event(s). Therefore,

excluding major events from the outage history dataset is recommended in order to better represent reliability of the system.

Applying this approach yields the following values for SAIFI and SAIDI:

Year	Served	CustOut	CustMin	SAIFI	CAIDI	SAIDI
2002	172,383	359,964	67,665,563	2.088	188.0	392.5
2003	172,970	336,661	58,074,557	1.946	172.5	335.7
2004	172,965	418,388	82,439,932	2.419	197.0	476.6
<b>Average</b>		371,671	69,393,351			
<b>Std. Dev.</b>		42,102	12,274,234			
<b>Acceptable Value</b>		413,773	81,667,584	2.392	197.4	472.2



**Kentucky Power**  
**d/b/a**  
**American Electric Power**

**REQUEST**

Provide the yearly Customer Average Interruption Duration Index ("CAIDI") and the Customer Average Interruption Frequency Index ("CAIFI"), including and excluding major outages, on your system for the last five years. What is an acceptable value for CAIDI and CAIFI? Explain how it was derived.

**RESPONSE**

Please see the Company's response to Item No. 26.

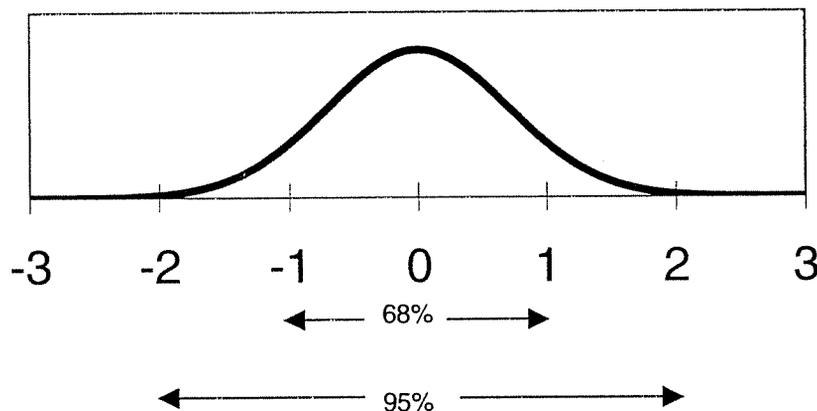
Kentucky Power does not collect the data necessary to report CAIFI. The CAIFI calculation requires the identification of individual customers interrupted during the period so that customers that are interrupted more than once are only counted once. Kentucky Power does have a fairly accurate count of customers affected for each sustained interruption. However, individual customer accounts, or premises, have not been recorded with each outage. The CAIFI calculation requires a level of customer ties through the outage management system that has only recently been started. The data is not available at all for the early part of the requested period and is not yet accurate enough to provide reports and targets even for the latter part of the requested period.

Please see the attached pages which describe how the Company derived an acceptable value for CAIDI. As stated above, Kentucky Power does not yet have the data necessary to calculate CAIFI. Kentucky Power is not comfortable suggesting an acceptable level of performance for a reliability metric that it does not yet track

In order to objectively establish reliability performance values, Kentucky Power believes that historic performance coupled with statistical methods is the soundest approach. Through use of the average and standard deviation statistics, an accurate representation of Kentucky Power's reliability performance can be developed for determining acceptable values.

These statistics characterize two key aspects of reliability performance – the central tendency or middle point of the reliability data (mean/average) and the variability of the values in the data set (standard deviation). Standard deviation can be viewed as how "spread out" from the average or mean the values are in the data set.

For a theoretical distribution of reliability values, that are plotted to form a bell shaped curve, 1 standard deviation above and below the mean will encompass about 68% of the values and 2 standard deviations will encompass 95% of the values. The following illustrates this concept:



Kentucky Power believes that utilizing the average and standard deviation statistics to quantify an acceptable CAIDI value is an objective and reasonable approach. Intrinsic to this method are key operational considerations:

- Use of historic values provides a performance benchmark "norm" for Kentucky Power customers.
- Use of Kentucky Powers' historic reliability values incorporates variables that are otherwise difficult to quantify which include accessibility, weather fluctuations, vegetation density, age of facilities, etc.

Major events can result in significant fluctuations from year to year in the CAIDI value due to the nature and severity of the event(s). Therefore, excluding major

events from the outage history dataset is recommended in order to better represent reliability of the system.

Applying this approach yields the following value for CAIDI:

Year	Served	CustOut	CustMin	SAIFI	CAIDI	SAIDI
2002	172,383	359,964	67,665,563	2.088	188.0	392.5
2003	172,970	336,661	58,074,557	1.946	172.5	335.7
2004	172,965	418,388	82,439,932	2.419	197.0	476.6
<b>Average</b>		371,671	69,393,351			
<b>Std. Dev.</b>		42,102	12,274,234			
<b>Acceptable Value</b>		413,773	81,667,584	2.392	197.4	472.2



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Identify and describe all reportable distribution outages from January 1, 2003 until the present date. Categorize the causes and provide the frequency of occurrence for each cause category.

**RESPONSE**

Please see the Company's response to Item No. 26. The outage by cause breakdown is included as Attachment C. Outage summaries have been provided with no exclusions and with major event days excluded, as identified in the responses to Item Nos. 26, 27, and 29. The breakdown by cause is shown for the percentage of overall outage count, SAIFI, and SAIDI. It should be noted that an individual cause's contribution to the overall total can vary noticeably depending on the metric used.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Does your utility have a distribution and/or transmission reliability improvement program?

- a. How does your utility measure reliability?
- b. How is the program monitored?
- c. What are the results of the system?
- d. How are proposed improvements for reliability approved and implemented?

**RESPONSE**

Yes, Kentucky Power Company has transmission and distribution reliability improvement programs, as follows:

**Transmission:** Transmission reliability is measured by SAIFI and CAIDI indices. The reliability of the transmission system is monitored and assessed by historical trending of SAIFI and CAIDI for interruptions as caused by transmission lines and stations, including distribution stations. As a direct result of the transmission reliability improvement activities, customer interruptions, caused by transmission outages, have trended downward in the last few years.

Annually, reliability improvement projects, along with other projects (such as system expansion projects) are evaluated for implementation on an AEP system-wide basis. Each project is evaluated and ranked according to many relevant factors such as: expected improvement in operation performance, minimization of extent of potential outages, and improvement of any outage related restoration time. AEP management reviews and approves the projects meeting these technical evaluation objectives. These approved projects are then funded, engineered, designed and implemented.

**Distribution:** Kentucky Power primarily uses the System Average Interruption Frequency Index (SAIFI) and Customer Average Interruption Duration Index (CAIDI) reliability indices to measure reliability.

Kentucky Power personnel monitor reliability at several levels. Distribution outages are reviewed on a daily basis throughout the territory by local management. Weekly and monthly reports of reliability in the local areas are reviewed by engineering, who look for potential outage trends and/or patterns. Local reliability teams, with members from engineering, forestry, line, and supervision, meet on a monthly basis to discuss current issues, such as outage patterns, upgrades/repairs needed, etc.

Through recognition of outage patterns, mitigation plans are formulated. Mitigation plans can be simple or fairly complex, depending on the situation. Examples of simple, more straightforward plans include scheduling a patrol of the area looking for the direct cause of the outage such as primary conductor not attached to an insulator or right-of-way needing attention. These plans are typically not documented. More formal or complex mitigation plans include studying the coordination of protective devices, identifying areas with deteriorating facilities (such as small primary conductor), or looking for opportunities to relocate lines from relatively inaccessible cross country routes to locations along a road.

Dependant on the scope of work, reliability improvements are authorized at the local level, company level or AEP level and implemented using either local personnel or bringing in outside labor for the duration of the project. Locally approved work may include repairing/replacing failed equipment or adding minor sectionalizing. Typically, local personnel complete the work.

Improvements needing company level authorization generally mean the work is more expansive than can be accomplished with local crews and/or specialized equipment is necessary to implement the improvement.



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Provide a summary description of your utilities:

- a. Right-of-way management program. Provide the budget for the last 5 years.
- b. Vegetation management program. Provide the budget for the last 5 years.
- c. Transmission and distribution inspection program. Provide the budget for the last 5 years.

**RESPONSE**

**Transmission Response:**

a&b) AEP implements a comprehensive, systematic integrated vegetation management program designed to insure that the vegetation along each transmission line is managed at the proper time, and in the most cost-effective and environmentally sound manner. AEP's transmission system is managed on a prescriptive basis. Ongoing evaluation of the system, through ground and aerial inspections by both line maintenance and forestry personnel, provides the basic information used by AEP foresters to develop prescriptions. Additionally, line criticality, historical data, line voltage, location, vegetative inventory information and land use are among the items considered when developing management prescriptions. Prescriptions may include several activities such as: tree trimming, tree removal, mechanical clearing and ground and aerial herbicide applications. Subsequent prescriptions may address isolated locations requiring "yard tree" trimming, the removal of danger trees outside the maintained right-of-way or control of fast growing brush, before the line is again maintained in its entirety. AEP's forestry staff and its contractors continuously work to insure the appropriate prescription is utilized to maximize effectiveness and efficiency.

<b>Program</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Trans Line	\$997,176	\$983,670	\$1,120,421	\$1,030,786	\$872,451

c) Transmission line inspection methods vary and can be performed from the air, ground, or by climbing a structure. All structures or a few targeted structures in a line may be inspected at a given time utilizing one or more of these inspection methods. One method of inspection may lead to another to confirm or further define the severity of a potentially detected problem. In general, aerial patrols are performed for each transmission line on a scheduled basis. Foot patrols or climbing inspections are scheduled as needed. Forced line outages usually require an aerial, foot patrol/climbing or combination of all inspections to help identify the cause of the outage so the line can be properly repaired and returned to service.

Actual O&M expenditures for transmission line inspection program:

Program	2000	2001	2002	2003	2004
Line	\$143,208	\$235,376	\$227,449	\$302,265	\$500,067

**Distribution Response:**

a&b) Program Details: AEP has approximately 9,160 miles of overhead distribution lines in Kentucky requiring vegetation control.

Currently, AEP employs a three to eight year cycle-based clearing program on circuits in conjunction with reliability monitoring on each feeder. Additionally, off-cycle work is done to address areas that develop problems due to tree contact prior to the circuit's scheduled maintenance. This quality-of-service approach allows maintaining a system plan while addressing any interim problems, if they develop. Overall, the program minimizes tree-related outages and contributes to more rapid storm restoration by providing improved accessibility to lines during emergency conditions.

Objective: The objective of this program is to address safety and service reliability while maintaining cost effectiveness.

Inspection/Collection: The System Forestry organization, in conjunction with local operating personnel, identifies the circuits to be maintained based on the clearance cycle as well as operating history and previous maintenance techniques employed. Once the circuits are identified, graphics personnel provide copies of the necessary detail circuit maps to be used for the program. In addition, company personnel identify and report vegetative conditions through the course of their everyday work.

AEP has researched cost and reliability relationships between vegetation management expenditures and corresponding reliability improvements in an effort to continually improve its vegetation management program. AEP supports ongoing research to develop improved maintenance methods and to develop tree species that are compatible for planting near or under power lines. Examples of these research efforts include the use of the helicopter aerial saw on mountainous rights-of-way, the development of the low volume foliar herbicide application technique and the development of SMART trees.

Maintenance: AEP has adopted clearing specifications that provide for ample clearances from conductors and appurtenances. Costs for vegetation management are effectively managed by competitive bidding for maintenance contracts, the selection of manual and mechanical clearing methods and herbicide applications. AEP attempts to notify property owners of impending vegetation management to be done in their area. This communication enhances productivity and improves customer relations.

Records/Reporting: All Right-of-Way Vegetation Management Program work data is captured in a web based record keeping and invoicing system. Numerous reports are generated to assist in managing the program. Through this system, cost and productivity are monitored on an ongoing basis.

Expenditures for the last 5 years

<b>Right of Way</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004 *</b>
Distribution	\$2,985,747	\$2,846,63	\$4,270,641	\$4,408,009	\$7,208,035

\* Included in the 2004 entry is \$2,529,569 for Targeted Circuit Reliability (TCR) work. TCR is a 3 year program (2004 – 2006) infusing additional funds into KYPCo for reliability improvements. Included in the program is additional r/w maintenance and funding for distribution line improvements aimed at improving reliability.

c) The basic components of the Distribution inspection program are overhead circuit inspection, underground facilities inspection and pole inspection. All overhead and underground facilities are visually inspected per requirements of Title 807 Kentucky Administrative Regulations 5:006 Section 25 (4) (d): “At intervals not to exceed two (2) years, the utility shall inspect electric lines operating at voltages of less than sixty-nine (69) KV, including insulators, conductors and supporting facilities.”

In addition to the bi-annual visual facilities inspection, Kentucky Power Co. performs a ground line inspection of a sample of the wood and metal pole populations to identify deterioration. Poles failing the inspection are subsequently replaced.

Distribution Program Expenditures for past 5 years

<b>Distribution Inspection</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>
Circuit					
Inspection	*	*	\$273,847	\$578,190	\$817,300
Pole	*	*	\$496,642	\$430,003	\$339,810
Inspection					
Total	*	*	\$770,489	\$1,008,193	\$1,157,110

\* Data not available



**Kentucky Power  
d/b/a  
American Electric Power**

**REQUEST**

Explain the criteria your utility uses to determine if pole or conductor replacement is necessary. Provide costs/budgets for transmission and distribution facilities replacement for the years 2000 through 2025.

**RESPONSE**

**Transmission:**

The replacement of poles and conductor are driven by their known physical deterioration, history of problems or poor performance, or otherwise the recognized physical condition(s) of the pole and or conductor. There are occurrences where conductors are replaced to increase the electrical capacity of a particular circuit. These 'upgrades' are not necessarily related to any physical deterioration of the facility. When smaller capacity conductors are replaced with larger capacity conductors, the poles (or towers) are evaluated to ensure that the conductor support structure has the capability to support the larger conductor and/or has a remaining life commensurate with the new conductor. Therefore, expenditures would vary from year to year.

The basis for transmission pole or conductor replacement is fashioned after the latest edition of the National Electric Safety Code (NESC). The inspection process has been designed to identify line components that are nearing the end of useful life and to provide a reasonable time frame to carry out corrective action.

The Costs/budget for transmission facilities for the years 2000 through 2005 are shown below.

<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006-2025</b>
\$639,000	\$189,000	\$1,512,000	\$901,000	\$774,000	\$200,000 <u>1/</u>	See <u>2/</u>

1/ Budget

2/ The replacement of transmission poles and conductors are driven mainly by their physical condition. Therefore, expenditures would vary from year to year as illustrated by historical capital expenditures from 2000-2004.

*Distribution:*

Needed pole replacements due to deterioration are identified by inspection on a 10-year pole inspection and treatment cycle. This inspection includes a determination of whether the pole has sufficient strength to remain through the next inspection cycle or whether it requires reinforcement or replacement. The visual circuit inspection program (done for all facilities over a two-year cycle) can also identify pole replacement/reinforcement needs outside of the pole inspection and treatment program. Specific problems that can be identified would include such things as pole damage from external forces (vehicles or machinery) or damage from animals/woodpeckers.

As part of the normal service extension process that may require additional equipment to be installed on existing poles an analysis is conducted to ensure that the pole(s) have adequate strength. If pole strength were inadequate the pole would be reinforced or replaced as required. Circuit rebuild projects that typically would involve reconductoring and/or voltage conversion also allow for pole analysis as part of the line design process and can result in significant pole replacements.

The actual conductor ampacity loading and projected loading based on load growth and anticipated new loads are evaluated for Substation Equipment and Circuit main feeders each year following the summer peak-loading season. This is the "Load Forecast Process". Overloads and projected overloads identified are further analyzed during the "Capacity Review Process" to see if simple remedies such as load balancing, power factor correction, load transfers, etc can be done or if more involved improvement plans need to be developed. If overloads were anticipated to occur in the next peak load cycle, short-term remedies are done or contingency plans are prepared in the event that loading would reach certain levels. Longer-term improvement plans are developed for consideration in the next budgeting cycle.

In addition to the loading review process mentioned above there is also the circuit inspection program done every two years which can assist with identifying weaker segments of the existing overhead conductors (portions of smaller size wire particularly which would be more susceptible to environmental contamination, etc.) as evidenced by a large number of conductor splices within spans.

Replacement programs are targeted for poles and conductors based on historical trends and the budgeting process takes inspection results into account going forwards.

Whereas pole replacement as a follow-up to pole inspections is a separate budget item and is shown on the attached, much of the conductor replacement is normally associated with new service or major circuit rebuild budget items and is difficult to split out separately. There is however a separate program geared towards the replacement of small conductor specifically due to deterioration for which the budget amounts are shown below.

**Costs/Budgets for Distribution Poles and Conductors Replacement 2000 - 2025**

Note: The 2000 through 2001 numbers are not available.  
The 2002 through 2004 numbers are actual costs.  
The 2005 number is the budget number.  
The 2006 through 2025 numbers are forecasts.  
Cost values represent capital and maintenance expenses associated with the replacements.

YEAR	Pole Replacement	Small Conductor Replacement	
2000	N/A	N/A	
2001	N/A	N/A	
2002	\$528,000	\$231,000	
2003	\$582,000	\$190,000	
2004	\$698,000	\$191,000	
2005	\$484,000	\$211,000	
2006	\$471,000	\$203,000	
2007	\$467,000	\$201,000	
2008	\$482,000	\$207,000	
2009	\$497,000	\$213,000	
2010	\$520,000	\$224,000	
2011	\$536,000	\$231,000	
2012	\$552,000	\$238,000	
2013	\$568,000	\$245,000	
2014	\$585,000	\$252,000	
2015	\$603,000	\$260,000	
2016	\$621,000	\$268,000	
2017	\$640,000	\$276,000	
2018	\$659,000	\$284,000	
2019	\$679,000	\$293,000	
2020	\$699,000	\$301,000	
2021	\$720,000	\$310,000	
2022	\$742,000	\$320,000	
2023	\$764,000	\$329,000	
2024	\$787,000	\$339,000	
2025	\$810,000	\$349,000	